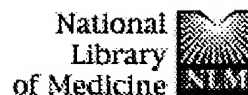


WEST Search History

DATE: Friday, July 09, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L29	L28 AND tyrosine kinase	128
<input type="checkbox"/>	L28	L27 AND insulin receptor	164
<input type="checkbox"/>	L27	PIR	23861
<input type="checkbox"/>	L26	hGrb14	0
<input type="checkbox"/>	L25	L24 AND insulin receptor	45
<input type="checkbox"/>	L24	L22 AND PIR	523
<input type="checkbox"/>	L23	L22 AND hGrb14	0
<input type="checkbox"/>	L22	530/300,324,350.CCLS.	18881
<input type="checkbox"/>	L21	L20 AND insulin receptor	23
<input type="checkbox"/>	L20	L18 AND PIR	165
<input type="checkbox"/>	L19	L18 AND hGrb14	0
<input type="checkbox"/>	L18	435/7.1,7.2.CCLS.	10015
<input type="checkbox"/>	L17	Girard-J.IN.	115
<input type="checkbox"/>	L16	Girard-Jean.IN.	5
<input type="checkbox"/>	L15	Girard.IN.	2870
<input type="checkbox"/>	L14	Bereziat-V.IN.	1
<input type="checkbox"/>	L13	Bereziat-Veronique.IN.	1
<input type="checkbox"/>	L12	Bereziat.IN.	36
<input type="checkbox"/>	L11	Kasus-Jacobi-Anne.IN.	1
<input type="checkbox"/>	L10	Kasus-Jacobi-A.IN.	1
<input type="checkbox"/>	L9	Kasus-Jacobi.IN.	2
<input type="checkbox"/>	L8	Perdereau-D.IN.	1
<input type="checkbox"/>	L7	Perdereau-Dominique.IN.	1
<input type="checkbox"/>	L6	Perdereau.IN.	3
<input type="checkbox"/>	L5	Burnol-A.IN.	1
<input type="checkbox"/>	L4	Burnol-A-F.IN.	1
<input type="checkbox"/>	L3	Burnol-Anne.IN.	0
<input type="checkbox"/>	L2	Burnol-Anne-Francoise.IN.	1
<input type="checkbox"/>	L1	(Burnol.IN.)	2

END OF SEARCH HISTORY



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books
 Search PubMed for PIR domain Go Clear
 Limits Preview/Index History Clipboard Details

About Entrez

Display Summary Show: 500 Sort Send to Text

Text Version

Items 1-116 of 116

One page.

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

☐ 1: [O'Connor S, Shumway SD, Amanna IJ, Hayes CE, Miyamoto S.](#) Related Articles, Links



Regulation of constitutive p50/c-Rel activity via proteasome inhibitor-resistant IkappaBalpha degradation in B cells.

Mol Cell Biol. 2004 Jun;24(11):4895-908.

PMID: 15143182 [PubMed - indexed for MEDLINE]

☐ 2: [Wu CH, Huang H, Nikolskaya A, Hu Z, Barker WC.](#) Related Articles, Links



The iProClass integrated database for protein functional analysis.

Comput Biol Chem. 2004 Feb;28(1):87-96.

PMID: 15022647 [PubMed - indexed for MEDLINE]

☐ 3: [Cariou B, Bereziat V, Moncoq K, Kasus-Jacobi A, Perdreau D, Le Marcis V, Burnol AF.](#) Related Articles, Links



Regulation and functional roles of Grb14.

Front Biosci. 2004 May 1;9:1626-36. Review.

PMID: 14977573 [PubMed - indexed for MEDLINE]

☐ 4: [Howard MB, Ekborg NA, Taylor LE 2nd, Weiner RM, Hutcheson SW.](#) Related Articles, Links



Chitinase B of "Microbulbifer degradans" 2-40 contains two catalytic domains with different chitinolytic activities.

J Bacteriol. 2004 Mar;186(5):1297-303.

PMID: 14973034 [PubMed - indexed for MEDLINE]

☐ 5: [Wu CH, Nikolskaya A, Huang H, Yeh LS, Natale DA, Vinayaka CR, Hu ZZ, Mazumder R, Kumar S, Kourtesis P, Ledley RS, Suzek BE, Arminski L, Chen Y, Zhang J, Cardenas JL, Chung S, Castro-Alvarez J, Dinkov G, Barker WC.](#) Related Articles, Links



PIRSF: family classification system at the Protein Information Resource.

Nucleic Acids Res. 2004 Jan 1;32 Database issue:D112-4.

PMID: 14681371 [PubMed - indexed for MEDLINE]

☐ 6: [Moncoq K, Broutin I, Larue V, Perdreau D, Cailliau K, Browaeys-Poly E, Burnol AF, Ducruix A.](#) Related Articles, Links



The PIR domain of Grb14 is an intrinsically unstructured protein: implication in insulin signaling.

FEBS Lett. 2003 Nov 20;554(3):240-6.

PMID: 14623073 [PubMed - indexed for MEDLINE]

☐ 7: [Horng JT, Huang HD, Wang SH, Chen MY, Huang SL, Hwang JK.](#) Related Articles, Links



Computing motif correlations in proteins.

J Comput Chem. 2003 Dec;24(16):2032-43.

PMID: 14531057 [PubMed - indexed for MEDLINE]


☐ 8: [Vanwetswinkel S, Krick J, Andersen GR, Guntert P, Dijk J, Canters GW, Siegal G.](#) Related Articles, Links





Solution structure of the 162 residue C-terminal domain of human elongation factor 1Bgamma.


J Biol Chem. 2003 Oct 31;278(44):43443-51. Epub 2003 Aug 13.


PMID: 12920118 [PubMed - indexed for MEDLINE]


-  **9:** [Tun T, Kubagawa Y, Dennis G, Burrows PD, Cooper MD, Kubagawa H.](#) [Related Articles, Links](#)


 **Genomic structure of mouse PIR-A6, an activating member of the paired immunoglobulin-like receptor gene family.**
Tissue Antigens. 2003 Mar;61(3):220-30.
PMID: 12694571 [PubMed - indexed for MEDLINE]


-  **10:** [Solomon T, Ni H, Beasley DW, Ekkelenkamp M, Cardoso MJ, Barrett AD.](#) [Related Articles, Links](#)

 **Origin and evolution of Japanese encephalitis virus in southeast Asia.**
J Virol. 2003 Mar;77(5):3091-8.
PMID: 12584335 [PubMed - indexed for MEDLINE]


-  **11:** [Wu CH, Yeh LS, Huang H, Arminski L, Castro-Alvares J, Chen Y, Hu Z, Kourtesis P, Ledley RS, Suzek BE, Vinayaka CR, Zhang J, Barker WC.](#) [Related Articles, Links](#)


 **The Protein Information Resource.**
Nucleic Acids Res. 2003 Jan 1;31(1):345-7.
PMID: 12520019 [PubMed - indexed for MEDLINE]


-  **12:** [Cariou B, Perdureau D, Cailliau K, Browaeys-Poly E, Bereziat V, Vasseur-Cognet M, Girard J, Burnol AF.](#) [Related Articles, Links](#)

 **The adapter protein ZIP binds Grb14 and regulates its inhibitory action on insulin signaling by recruiting protein kinase C ζ .**
Mol Cell Biol. 2002 Oct;22(20):6959-70.
PMID: 12242277 [PubMed - indexed for MEDLINE]


-  **13:** [Wang C, McCarty IM, Balazs L, Li Y, Steiner MS.](#) [Related Articles, Links](#)


 **A prostate-derived cDNA that is mapped to human chromosome 19 encodes a novel protein.**
Biochem Biophys Res Commun. 2002 Aug 16;296(2):281-7.
PMID: 12163014 [PubMed - indexed for MEDLINE]


-  **14:** [Wechsler J, Choi YH, Krall J, Ahmad F, Manganiello VC, Movsesian MA.](#) [Related Articles, Links](#)


 **Isoforms of cyclic nucleotide phosphodiesterase PDE3A in cardiac myocytes.**
J Biol Chem. 2002 Oct 11;277(41):38072-8. Epub 2002 Aug 01.
PMID: 12154085 [PubMed - indexed for MEDLINE]


-  **15:** [Wheadon H, Paling NR, Welham MJ.](#) [Related Articles, Links](#)


 **Molecular interactions of SHP1 and SHP2 in IL-3-signalling.**
Cell Signal. 2002 Mar;14(3):219-29.
PMID: 11812650 [PubMed - indexed for MEDLINE]


-  **16:** [van der Flier A, Kuikman I, Kramer D, Geerts D, Kreft M, Takafuta T, Shapiro SS, Sonnenberg A.](#) [Related Articles, Links](#)


 **Different splice variants of filamin-B affect myogenesis, subcellular distribution, and determine binding to integrin [beta] subunits.**
J Cell Biol. 2002 Jan 21;156(2):361-76.
PMID: 11807098 [PubMed - indexed for MEDLINE]


-  **17:** [Wu CH, Huang H, Arminski L, Castro-Alvares J, Chen Y, Hu ZZ, Ledley RS, Lewis KC, Mewes HW, Orcutt BC, Suzek BE, Tsugita A, Vinayaka CR, Yeh LS, Zhang J, Barker WC.](#) [Related Articles, Links](#)


 **The Protein Information Resource: an integrated public resource of functional annotation of proteins.**
Nucleic Acids Res. 2002 Jan 1;30(1):35-7.
PMID: 11752247 [PubMed - indexed for MEDLINE]


-  **18:** [Bereziat V, Kasus-Jacobi A, Perdereau D, Cariou B, Girard J, Burnol AF](#) [Related Articles, Links](#)

 **Inhibition of insulin receptor catalytic activity by the molecular adapter Grb14.**
J Biol Chem. 2002 Feb 15;277(7):4845-52. Epub 2001 Nov 28.
PMID: 11726652 [PubMed - indexed for MEDLINE]


-  **19:** [Andreu N, Escarceller M, Feather S, Devriendt K, Wolf AS, Estivill X, Sumoy L](#) [Related Articles, Links](#)

 **PALML, a novel paralemmin-related gene mapping on human chromosome 1p21.**
Gene. 2001 Oct 31;278(1-2):33-40.
PMID: 11707320 [PubMed - indexed for MEDLINE]


-  **20:** [Oguariri RM, Borrmann S, Klinkert MQ, Krennsner PG, Kun JF](#) [Related Articles, Links](#)

 **High prevalence of human antibodies to recombinant Duffy binding-like alpha domains of the Plasmodium falciparum-infected erythrocyte membrane protein 1 in semi-immune adults compared to that in nonimmune children.**
Infect Immun. 2001 Dec;69(12):7603-9.
PMID: 11705939 [PubMed - indexed for MEDLINE]


-  **21:** [Silverstein KA, Shoop E, Johnson JE, Retzel EF](#) [Related Articles, Links](#)

 **MetaFam: a unified classification of protein families. I. Overview and statistics.**
Bioinformatics. 2001 Mar;17(3):249-61.
PMID: 11294790 [PubMed - indexed for MEDLINE]


-  **22:** [Trexler M, Banyai L, Patthy L](#) [Related Articles, Links](#)


 **A human protein containing multiple types of protease-inhibitory modules.**
Proc Natl Acad Sci U S A. 2001 Mar 27;98(7):3705-9. Epub 2001 Mar 13.
PMID: 11274388 [PubMed - indexed for MEDLINE]


-  **23:** [Kurosaki T, Maeda A, Ishiai M, Hashimoto A, Inabe K, Takata M](#) [Related Articles, Links](#)

 **Regulation of the phospholipase C-gamma2 pathway in B cells.**
Immunol Rev. 2000 Aug;176:19-29. Review.
PMID: 11043765 [PubMed - indexed for MEDLINE]


-  **24:** [Maun K, Weiss IM, Andre S, Gabius HJ, Fritz M](#) [Related Articles, Links](#)


 **The amino-acid sequence of the abalone (*Haliotis laevis*) nacre protein perlucin. Detection of a functional C-type lectin domain with galactose/mannose specificity.**
Eur J Biochem. 2000 Aug;267(16):5257-64.
PMID: 10931211 [PubMed - indexed for MEDLINE]

-  **25:** [McGarvey PB, Huang H, Barker WC, Orcutt BC, Garavelli JS, Srinivasarao GY, Yeh LS, Xiao C, Wu CH](#) [Related Articles, Links](#)

 **PIR: a new resource for bioinformatics.**
Bioinformatics. 2000 Mar;16(3):290-1.
PMID: 10869023 [PubMed - indexed for MEDLINE]

-  **26:** [Kasus-Jacobi A, Bereziat V, Perdereau D, Girard J, Burnol AF](#) [Related Articles, Links](#)

 **Evidence for an interaction between the insulin receptor and Grb7. A role for two of its binding domains, PIR and SH2.**
Oncogene. 2000 Apr 13;19(16):2052-9.
PMID: 10803466 [PubMed - indexed for MEDLINE]

-  **27:** [Barker WC, Garavelli JS, Hou Z, Huang H, Ledley RS, McGarvey PB, Mewes HW, Orcutt BC, Pfeiffer F, Tsugita A, Vinayaka CR](#) [Related Articles, Links](#)

Xiao C, Yeh L.S, Wu C.



Protein Information Resource: a community resource for expert annotation of protein data.

Nucleic Acids Res. 2001 Jan 1;29(1):29-32.

PMID: 11125041 [PubMed - indexed for MEDLINE]



28: Huang H, Xiao C, Wu CH.

Related Articles, Links



ProClass protein family database.

Nucleic Acids Res. 2000 Jan 1;28(1):273-6.

PMID: 10592245 [PubMed - indexed for MEDLINE]



29: Krause A, Stoye J, Vingron M.

Related Articles, Links



The SYSTERS protein sequence cluster set.

Nucleic Acids Res. 2000 Jan 1;28(1):270-2.

PMID: 10592244 [PubMed - indexed for MEDLINE]



30: Barker WC, Garavelli JS, Huang H, McGarvey PB, Orcutt BC, Srinivasarao GY, Xiao C, Yeh L.S, Ledley RS, Janda JF, Pfeiffer F, Mewes HW, Tsugita A, Wu C.

Related Articles, Links



The protein information resource (PIR).

Nucleic Acids Res. 2000 Jan 1;28(1):41-4.

PMID: 10592177 [PubMed - indexed for MEDLINE]



31: Taylor LS, McVicar DW.

Related Articles, Links



Functional association of FcepsilonRIgamma with arginine(632) of paired immunoglobulin-like receptor (PIR)-A3 in murine macrophages.

Blood. 1999 Sep 1;94(5):1790-6.

PMID: 10477705 [PubMed - indexed for MEDLINE]



32: Timms JF, Swanson KD, Marie-Cardine A, Raab M, Rudd CE, Schraven B, Neel BG.

Related Articles, Links



SHPS-1 is a scaffold for assembling distinct adhesion-regulated multi-protein complexes in macrophages.

Curr Biol. 1999 Aug 26;9(16):927-30.

PMID: 10469599 [PubMed - indexed for MEDLINE]



33: Srinivasarao GY, Yeh L.S, Marzec CR, Orcutt BC, Barker WC.

Related Articles, Links



PIR-ALN: a database of protein sequence alignments.

Bioinformatics. 1999 May;15(5):382-90.

PMID: 10366659 [PubMed - indexed for MEDLINE]



34: Maeda A, Scharenberg AM, Tsukada S, Bolen JB, Kinet JP, Kurosaki T.

Related Articles, Links



Paired immunoglobulin-like receptor B (PIR-B) inhibits BCR-induced activation of Syk and Btk by SHP-1.

Oncogene. 1999 Apr 8;18(14):2291-7.

PMID: 10327049 [PubMed - indexed for MEDLINE]



35: Krause A, Nicodeme P, Bomberg-Bauer E, Rehmsmeier M, Vingron M.

Related Articles, Links



WWW access to the SYSTERS protein sequence cluster set.

Bioinformatics. 1999 Mar;15(3):262-3.

PMID: 10222416 [PubMed - indexed for MEDLINE]



36: Toth J, Berger F, Dekany LL.


Related Articles, Links




Separation of the First Adsorbed Layer from Others and Calculation of the BET Compatible Surface Area from Type II Isotherms.


J Colloid Interface Sci. 1999 Apr 15;212(2):411-418.


PMID: 10092371 [PubMed - as supplied by publisher]


-  **37:** [Srinivasarao GY, Yeh LS, Marzec CR, Orcutt BC, Barker WC, Pfeiffer F.](#) [Related Articles, Links](#)

 **Database of protein sequence alignments: PIR-ALN.**
Nucleic Acids Res. 1999 Jan 1;27(1):284-5.
PMID: 9847202 [PubMed - indexed for MEDLINE]


-  **38:** [Wu CH, Shivakumar S, Huang H.](#) [Related Articles, Links](#)


 **ProClass Protein Family Database.**
Nucleic Acids Res. 1999 Jan 1;27(1):272-4.
PMID: 9847199 [PubMed - indexed for MEDLINE]


-  **39:** [Berg KL, Carlberg K, Rohrschneider LR, Siminovitch KA, Stanley ER](#) [Related Articles, Links](#)


 **The major SHP-1-binding, tyrosine-phosphorylated protein in macrophages is a member of the KIR/LIR family and an SHP-1 substrate.**
Oncogene. 1998 Nov 12;17(19):2535-41.
PMID: 9824165 [PubMed - indexed for MEDLINE]


-  **40:** [Yamashita Y, Ono M, Takai T.](#) [Related Articles, Links](#)

 **Inhibitory and stimulatory functions of paired Ig-like receptor (PIR) family in RBL-2H3 cells.**
J Immunol. 1998 Oct 15;161(8):4042-7.
PMID: 9780174 [PubMed - indexed for MEDLINE]


-  **41:** [Kasus-Jacobi A, Perdereau D, Auzan C, Clauser E, Van Obberghen E, Mauvais-Jarvis F, Girard J, Burnol AF.](#) [Related Articles, Links](#)

 **Identification of the rat adapter Grb14 as an inhibitor of insulin actions.**
J Biol Chem. 1998 Oct 2;273(40):26026-35.
PMID: 9748281 [PubMed - indexed for MEDLINE]


-  **42:** [Maeda A, Kurosaki M, Kurosaki T.](#) [Related Articles, Links](#)


 **Paired immunoglobulin-like receptor (PIR)-A is involved in activating mast cells through its association with Fc receptor gamma chain.**
J Exp Med. 1998 Sep 7;188(5):991-5.
PMID: 9730901 [PubMed - indexed for MEDLINE]


-  **43:** [Wu CH, Shivakumar S.](#) [Related Articles, Links](#)

 **Proclass protein family database: new version with motif alignments.**
Pac Symp Biocomput. 1998;:719-30.
PMID: 9697225 [PubMed - indexed for MEDLINE]


-  **44:** [Gracy J, Argos P.](#) [Related Articles, Links](#)



















 **Automated protein sequence database classification. II. Delineation Of domain boundaries from sequence similarities.**
Bioinformatics. 1998;14(2):174-87.
PMID: 9545450 [PubMed - indexed for MEDLINE]

-  **45:** [Blery M, Kubagawa H, Chen CC, Vely F, Cooper MD, Vivier E.](#) [Related Articles, Links](#)

 **The paired Ig-like receptor PIR-B is an inhibitory receptor that recruits the protein-tyrosine phosphatase SHP-1.**
Proc Natl Acad Sci U S A. 1998 Mar 3;95(5):2446-51.
PMID: 9482905 [PubMed - indexed for MEDLINE]

-  **46:** [Zhulin IB, Taylor BL, Dixon R.](#) [Related Articles, Links](#)

 **PAS domain S-boxes in Archaea, Bacteria and sensors for oxygen and redox.**
Trends Biochem Sci. 1997 Sep;22(9):331-3. No abstract available.
PMID: 9301332 [PubMed - indexed for MEDLINE]

-  **47:** [Benvenega S.](#) [Related Articles, Links](#)
-  **A thyroid hormone binding motif is evolutionarily conserved in apolipoproteins.**
Thyroid. 1997 Aug;7(4):605-11.
PMID: 9292950 [PubMed - indexed for MEDLINE]
-  **48:** [Vogel J.](#) [Hubschmann T.](#) [Borner T.](#) [Hess WR.](#) [Related Articles, Links](#)
-  **Splicing and intron-internal RNA editing of trnK-matK transcripts in barley plastids: support for MatK as an essential splice factor.**
J Mol Biol. 1997 Jul 11;270(2):179-87.
PMID: 9236120 [PubMed - indexed for MEDLINE]
-  **49:** [Fratini A.](#) [Faranda S.](#) [Bagnasco L.](#) [Patrosso C.](#) [Nulli P.](#) [Zucchi I.](#) [Vezzoni P.](#) [Related Articles, Links](#)
-  **Identification of a new member (ZNF183) of the Ring finger gene family in Xq24-25.**
Gene. 1997 Jun 19;192(2):291-8.
PMID: 9224902 [PubMed - indexed for MEDLINE]
-  **50:** [van Doorn LJ.](#) [Giesendorf BA.](#) [Bax R.](#) [van der Zeijst BA.](#) [Vandamme P.](#) [Quint WG.](#) [Related Articles, Links](#)
-  **Molecular discrimination between *Campylobacter jejuni*, *Campylobacter coli*, *Campylobacter lari* and *Campylobacter upsaliensis* by polymerase chain reaction based on a novel putative GTPase gene.**
Mol Cell Probes. 1997 Jun;11(3):177-85.
PMID: 9232616 [PubMed - indexed for MEDLINE]
-  **51:** [Mizuno T.](#) [Tanaka I.](#) [Related Articles, Links](#)
-  **Structure of the DNA-binding domain of the OmpR family of response regulators.**
Mol Microbiol. 1997 May;24(3):665-7. No abstract available.
PMID: 9179858 [PubMed - indexed for MEDLINE]
-  **52:** [Feroli F.](#) [Carignani G.](#) [Pavanello A.](#) [Guerreiro P.](#) [Azevedo D.](#) [Rodrigues-Pousada C.](#) [Melchiorretto P.](#) [Panzeri L.](#) [Agostoni Carbone ML.](#) [Related Articles, Links](#)
-  **Analysis of a 17.9 kb region from *Saccharomyces cerevisiae* chromosome VII reveals the presence of eight open reading frames, including BRF1 (TFIIB70) and GCN5 genes.**
Yeast. 1997 Mar 30;13(4):373-7.
PMID: 9133742 [PubMed - indexed for MEDLINE]
-  **53:** [Boyington JC.](#) [Gladyshev VN.](#) [Khangulov SV.](#) [Stadtman TC.](#) [Sun PD.](#) [Related Articles, Links](#)
-  **Crystal structure of formate dehydrogenase H: catalysis involving Mo, molybdopterin, selenocysteine, and an Fe4S4 cluster.**
Science. 1997 Feb 28;275(5304):1305-8.
PMID: 9036855 [PubMed - indexed for MEDLINE]
-  **54:** [Cook WJ.](#) [Martin PD.](#) [Edwards BF.](#) [Yamazaki RK.](#) [Chau V.](#) [Related Articles, Links](#)
-  **Crystal structure of a class I ubiquitin conjugating enzyme (Ubc7) from *Saccharomyces cerevisiae* at 2.9 angstroms resolution.**
Biochemistry. 1997 Feb 18;36(7):1621-7.
PMID: 9048545 [PubMed - indexed for MEDLINE]
-  **55:** [Boisgerault F.](#) [Tieng V.](#) [Stolzenberg MC.](#) [Dulphy N.](#) [Khalil I.](#) [Tamouza R.](#) [Charron D.](#) [Toubert A.](#) [Related Articles, Links](#)
-  **Differences in endogenous peptides presented by HLA-B*2705 and B*2703 allelic variants. Implications for susceptibility to**

spondylarthropathies.

J Clin Invest. 1996 Dec 15;98(12):2764-70.

PMID: 8981922 [PubMed - indexed for MEDLINE]


 **56:** [Peyroche A, Paris S, Jackson CL.](#)

[Related Articles, Links](#)


 **Nucleotide exchange on ARF mediated by yeast Gea1 protein.**

Nature. 1996 Dec 5;384(6608):479-81.

PMID: 8945477 [PubMed - indexed for MEDLINE]


 **57:** [Mi H, Kops O, Zimmermann E, Jaschke A, Tropschug M.](#)

[Related Articles, Links](#)


 **A nuclear RNA-binding cyclophilin in human T cells.**

FEBS Lett. 1996 Dec 2;398(2-3):201-5.

PMID: 8977107 [PubMed - indexed for MEDLINE]


 **58:** [Madania A, Poch O, Tarasov I, Winsor B, Martin R.](#)

[Related Articles, Links](#)


 **Analysis of a 22,956 bp region on the right arm of *Saccharomyces cerevisiae* chromosome XV.**

Yeast. 1996 Dec;12(15):1563-73.

PMID: 8972579 [PubMed - indexed for MEDLINE]


 **59:** [Mann K, Eckerskorn C, Mehrabian Z, Nalbandyan RM.](#)

[Related Articles, Links](#)


 **The amino acid sequence of the spinach basic cupredoxin plantacyanin.**

Biochem Mol Biol Int. 1996 Nov;40(5):881-7.

PMID: 8955876 [PubMed - indexed for MEDLINE]


 **60:** [Eichinger L, Bomblies L, Vandekerckhove J, Schleicher M, Gettemans J.](#)

[Related Articles, Links](#)


 **A novel type of protein kinase phosphorylates actin in the actin-fragmin complex.**

EMBO J. 1996 Oct 15;15(20):5547-56.

PMID: 8896448 [PubMed - indexed for MEDLINE]


 **61:** [Isoai A, Kawahara H, Okazaki Y, Shizuri Y.](#)

[Related Articles, Links](#)


 **Molecular cloning of a new member of the putative G protein-coupled receptor gene from barnacle *Balanus amphitrite*.**

Gene. 1996 Oct 10;175(1-2):95-100.

PMID: 8917082 [PubMed - indexed for MEDLINE]


 **62:** [Pelletier H, Sawaya MR, Wolfle W, Wilson SH, Kraut J.](#)

[Related Articles, Links](#)


 **Crystal structures of human DNA polymerase beta complexed with DNA: implications for catalytic mechanism, processivity, and fidelity.**

Biochemistry. 1996 Oct 1;35(39):12742-61.

PMID: 8841118 [PubMed - indexed for MEDLINE]

 **63:** [Iyo AH, Forsberg CW.](#)

[Related Articles, Links](#)


 **Endoglucanase G from *Fibrobacter succinogenes* S85 belongs to a class of enzymes characterized by a basic C-terminal domain.**

Can J Microbiol. 1996 Sep;42(9):934-43.

PMID: 8864216 [PubMed - indexed for MEDLINE]


 **64:** [Ruppel KM, Spudis JA.](#)

[Related Articles, Links](#)

 **Structure-function studies of the myosin motor domain: importance of the 50-kDa cleft.**




















Mol Biol Cell. 1996 Jul;7(7):1123-36.

PMID: 8862525 [PubMed - indexed for MEDLINE]

 **65:** [Kail M, Juttner E, Vaux D.](#)

[Related Articles, Links](#)

Lambda clone B22 contains a 7676 bp genomic fragment of

-  **Saccharomyces cerevisiae** chromosome VII spanning the VAM7-SPM2 intergenic region and containing three novel transcribed open reading frames.
Yeast. 1996 Jun 30;12(8):799-807.
PMID: 8813766 [PubMed - indexed for MEDLINE]
-  **66:** Becker W, Kentrup H, Heukelbach J, Joost HG. [Related Articles](#), [Links](#)
-  **cDNA cloning and characterization of rat Clk3, a LAMMER kinase predominately expressed in testis.**
Biochim Biophys Acta. 1996 Jun 5;1312(1):63-7.
PMID: 8679717 [PubMed - indexed for MEDLINE]
-  **67:** Rudolph J, Nordmann B, Storch KE, Gruenberg H, Rodewald K, Oesterheft D. [Related Articles](#), [Links](#)
-  **A family of halobacterial transducer proteins.**
FEMS Microbiol Lett. 1996 Jun 1;139(2-3):161-8.
PMID: 8674984 [PubMed - indexed for MEDLINE]
-  **68:** Moens L, Vanfleteren J, Van de Peer Y, Peeters K, Kapp O, Czeluzniak J, Goodman M, Blaxter M, Vinogradov S. [Related Articles](#), [Links](#)
-  **Globins in nonvertebrate species: dispersal by horizontal gene transfer and evolution of the structure-function relationships.**
Mol Biol Evol. 1996 Feb;13(2):324-33.
PMID: 8587498 [PubMed - indexed for MEDLINE]
-  **69:** Albini A, Benelli R, Presta M, Rusnati M, Ziche M, Rubartelli A, Paglialunga G, Bussolino F, Noonan D. [Related Articles](#), [Links](#)
-  **HIV-tat protein is a heparin-binding angiogenic growth factor.**
Oncogene. 1996 Jan 18;12(2):289-97.
PMID: 8570206 [PubMed - indexed for MEDLINE]
-  **70:** Wu CH, Zhao S, Chen HL. [Related Articles](#), [Links](#)
-  **A protein class database organized with ProSite protein groups and PIR superfamilies.**
J Comput Biol. 1996 Winter;3(4):547-61.
PMID: 9018603 [PubMed - indexed for MEDLINE]
-  **71:** Pearson WR. [Related Articles](#), [Links](#)
-  **Effective protein sequence comparison.**
Methods Enzymol. 1996;266:227-58.
PMID: 8743688 [PubMed - indexed for MEDLINE]
-  **72:** Zhang L, Jenkins KP, Stutz E, Hallick RB. [Related Articles](#), [Links](#)
-  **The Euglena gracilis intron-encoded mat2 locus is interrupted by three additional group II introns.**
RNA. 1995 Dec;1(10):1079-88.
PMID: 8595563 [PubMed - indexed for MEDLINE]
-  **73:** Koonin EV, Zhou S, Lucchesi JC. [Related Articles](#), [Links](#)
-  **The chromo superfamily: new members, duplication of the chromo domain and possible role in delivering transcription regulators to chromatin.**
Nucleic Acids Res. 1995 Nov 11;23(21):4229-33.
PMID: 7501439 [PubMed - indexed for MEDLINE]
-  **74:** Koch BM, Sibbesen O, Halkier BA, Svendsen I, Møller BL. [Related Articles](#), [Links](#)
-  **The primary sequence of cytochrome P450_{tyr}, the multifunctional N-hydroxylase catalyzing the conversion of L-tyrosine to p-hydroxyphenylacetaldehyde oxime in the biosynthesis of the cyanogenic**

glucoside dhurrin in *Sorghum bicolor* (L.) Moench.
Arch Biochem Biophys. 1995 Oct 20;323(1):177-86.
PMID: 7487064 [PubMed - indexed for MEDLINE]

 **75:** Maftahi M, Nicaud JM, Levesque H, Gaillardin C.

[Related Articles](#), [Links](#)



Sequencing analysis of a 24.7 kb fragment of yeast chromosome XIV identifies six known genes, a new member of the hexose transporter family and ten new open reading frames.

Yeast. 1995 Sep 15;11(11):1077-85.

PMID: 7502583 [PubMed - indexed for MEDLINE]

 **76:** Zimmerer EJ, Threlkeld L.


[Related Articles](#), [Links](#)



A ZFY-like sequence in fish, with comments on the evolution of the ZFY family of genes in vertebrates.

Biochem Genet. 1995 Aug;33(7-8):227-35.

PMID: 8595050 [PubMed - indexed for MEDLINE]

 **77:** Schoenbaum G, Eichenbaum H.


[Related Articles](#), [Links](#)



Information coding in the rodent prefrontal cortex. I. Single-neuron activity in orbitofrontal cortex compared with that in pyriform cortex.

J Neurophysiol. 1995 Aug;74(2):733-50.

PMID: 7472378 [PubMed - indexed for MEDLINE]

 **78:** van der Vlag J, Postma PW.

[Related Articles](#), [Links](#)



Regulation of glycerol and maltose uptake by the IIAGlc-like domain of IINag of the phosphotransferase system in *Salmonella typhimurium* LT2.

Mol Gen Genet. 1995 Jul 28;248(2):236-41.

PMID: 7651347 [PubMed - indexed for MEDLINE]

 **79:** Koken MH, Saib A, de The H.


[Related Articles](#), [Links](#)



A C4HC3 zinc finger motif.

C R Acad Sci III. 1995 Jul;318(7):733-9.

PMID: 7583761 [PubMed - indexed for MEDLINE]

 **80:** Wu LJ, Lewis PJ, Allmansberger R, Hauser PM, Errington J.


[Related Articles](#), [Links](#)



A conjugation-like mechanism for prespore chromosome partitioning during sporulation in *Bacillus subtilis*.

Genes Dev. 1995 Jun 1;9(11):1316-26.

PMID: 7797072 [PubMed - indexed for MEDLINE]

 **81:** Muller M, Schnitzler P, Koonin EV, Darai G.

[Related Articles](#), [Links](#)



Identification and properties of the largest subunit of the DNA-dependent RNA polymerase of fish lymphocystis disease virus: dramatic difference in the domain organization in the family Iridoviridae.

J Gen Virol. 1995 May;76 (Pt 5):1099-107.

PMID: 7730795 [PubMed - indexed for MEDLINE]

 **82:** Wang DS, Shaw R, Hattori M, Arai H, Inoue K, Shaw G.


[Related Articles](#), [Links](#)



Binding of pleckstrin homology domains to WD40/beta-transducin repeat containing segments of the protein product of the Lis-1 gene.

Biochem Biophys Res Commun. 1995 Apr 17;209(2):622-9.

PMID: 7733932 [PubMed - indexed for MEDLINE]

 **83:** Reardon D, Farber GK.


[Related Articles](#), [Links](#)



The structure and evolution of alpha/beta barrel proteins.


FASEB J. 1995 Apr;9(7):497-503. Review.

PMID: 7737457 [PubMed - indexed for MEDLINE]

 **84:** [Sutton RB, Davletov BA, Berghuis AM, Sudhof TC, Sprang SR.](#) [Related Articles, Links](#)




Structure of the first C2 domain of synaptotagmin I: a novel Ca²⁺/phospholipid-binding fold.
Cell. 1995 Mar 24;80(6):929-38.
PMID: 7697723 [PubMed - indexed for MEDLINE]

 **85:** [Caspers GJ, Leunissen JA, de Jong WW.](#) [Related Articles, Links](#)



The expanding small heat-shock protein family, and structure predictions of the conserved "alpha-crystallin domain".
J Mol Evol. 1995 Mar;40(3):238-48.
PMID: 7723051 [PubMed - indexed for MEDLINE]

 **86:** [Remillard SP, Lai EY, Levy YY, Fulton C.](#) [Related Articles, Links](#)




A calcineurin-B-encoding gene expressed during differentiation of the amoeboid flagellate *Naegleria gruberi* contains two introns.
Gene. 1995 Feb 27;154(1):39-45.
PMID: 7867946 [PubMed - indexed for MEDLINE]

 **87:** [Urabe H, Ogawara H.](#) [Related Articles, Links](#)




Cloning, sequencing and expression of serine/threonine kinase-encoding genes from *Streptomyces coelicolor* A3(2).
Gene. 1995 Feb 3;153(1):99-104.
PMID: 7883195 [PubMed - indexed for MEDLINE]

 **88:** [Yu H, Niechitta CV, Kumar J, Becker M, Toyoshima I, Sheetz MP.](#) [Related Articles, Links](#)




Characterization of kinectin, a kinesin-binding protein: primary sequence and N-terminal topogenic signal analysis.
Mol Biol Cell. 1995 Feb;6(2):171-83.
PMID: 7787244 [PubMed - indexed for MEDLINE]

 **89:** [Jabs EW, Li X, Scott AF, Meyers G, Chen W, Eccles M, Mao JJ, Charnas LR, Jackson CE, Jaye M.](#) [Related Articles, Links](#)




Jackson-Weiss and Crouzon syndromes are allelic with mutations in fibroblast growth factor receptor 2.
Nat Genet. 1994 Nov;8(3):275-9. Erratum in: Nat Genet 1995 Apr;9(4):451.
PMID: 7874170 [PubMed - indexed for MEDLINE]

 **90:** [Howard PK, Gamper M, Hunter T, Firtel RA.](#) [Related Articles, Links](#)



Regulation by protein-tyrosine phosphatase PTP2 is distinct from that by PTP1 during *Dictyostelium* growth and development.
Mol Cell Biol. 1994 Aug;14(8):5154-64.
PMID: 7518559 [PubMed - indexed for MEDLINE]

 **91:** [Schnitzler P, Sonntag KC, Muller M, Janssen W, Bugert JJ, Koonin EV, Darai G.](#) [Related Articles, Links](#)























Insect iridescent virus type 6 encodes a polypeptide related to the largest subunit of eukaryotic RNA polymerase II.
J Gen Virol. 1994 Jul;75 (Pt 7):1557-67.
PMID: 8021587 [PubMed - indexed for MEDLINE]


 **92:** [Hatzfeld M, Burba M.](#) [Related Articles, Links](#)



Function of type I and type II keratin head domains: their role in dimer, tetramer and filament formation.
J Cell Sci. 1994 Jul;107 (Pt 7):1959-72.
PMID: 7527050 [PubMed - indexed for MEDLINE]

 **93:** [Kieffer B, Driscoll PC, Campbell ID, Willis AC, van der Merwe PA, Davis SJ.](#) [Related Articles, Links](#)

-  **Three-dimensional solution structure of the extracellular region of the complement regulatory protein CD59, a new cell-surface protein domain related to snake venom neurotoxins.**
 Biochemistry. 1994 Apr 19;33(15):4471-82.
 PMID: 7512825 [PubMed - indexed for MEDLINE]
-  **94:** Bouillaud F, Arechaga I, Petit PX, Raimbault S, Levi-Meyrueis C, Casteilla L, Laurent M, Rial E, Ricquier D. [Related Articles](#), [Links](#)
-  **A sequence related to a DNA recognition element is essential for the inhibition by nucleotides of proton transport through the mitochondrial uncoupling protein.**
 EMBO J. 1994 Apr 15;13(8):1990-7.
 PMID: 8168495 [PubMed - indexed for MEDLINE]
-  **95:** Uyeda TQ, Ruppel KM, Spudich JA. [Related Articles](#), [Links](#)
-  **Enzymatic activities correlate with chimaeric substitutions at the actin-binding face of myosin.**
 Nature. 1994 Apr 7;368(6471):567-9.
 PMID: 8139694 [PubMed - indexed for MEDLINE]
-  **96:** York D, Filutowicz M. [Related Articles](#), [Links](#)
-  **Autoregulation-deficient mutant of the plasmid R6K-encoded pi protein distinguishes between palindromic and nonpalindromic binding sites.**
 J Biol Chem. 1993 Oct 15;268(29):21854-61.
 PMID: 8408040 [PubMed - indexed for MEDLINE]
-  **97:** Doll T, Meichsner M, Riederer BM, Honegger P, Matus A. [Related Articles](#), [Links](#)
-  **An isoform of microtubule-associated protein 2 (MAP2) containing four repeats of the tubulin-binding motif.**
 J Cell Sci. 1993 Oct;106 (Pt 2):633-9.
 PMID: 8282767 [PubMed - indexed for MEDLINE]
-  **98:** Kahn D. [Related Articles](#), [Links](#)
-  **Shuffling of an oxygen sensor haem domain.**
 Mol Microbiol. 1993 May;8(4):786-7. No abstract available.
 PMID: 8332069 [PubMed - indexed for MEDLINE]
-  **99:** Serwe M, Meyer HE, Craig AG, Carlihoff D, D'Haese J. [Related Articles](#), [Links](#)
-  **Complete amino acid sequence of the regulatory light chain of obliquely striated muscle myosin from earthworm, *Lumbricus terrestris*.**
 Eur J Biochem. 1993 Jan 15;211(1-2):341-6.
 PMID: 8425543 [PubMed - indexed for MEDLINE]
-  **100:** Weiss SM, Cohen DM, Indurkha N. [Related Articles](#), [Links](#)
-  **Transmembrane segment prediction from protein sequence data.**
 Proc Int Conf Intell Syst Mol Biol. 1993;1:420-8.
 PMID: 7584366 [PubMed - indexed for MEDLINE]
-  **101:** Eisenhauer PB, Harwig SS, Lehrer RI. [Related Articles](#), [Links](#)
-  **Cryptdins: antimicrobial defensins of the murine small intestine.**
 Infect Immun. 1992 Sep;60(9):3556-65.
 PMID: 1500163 [PubMed - indexed for MEDLINE]
-  **102:** Galat A, Lane WS, Standaert RF, Schreiber SL. [Related Articles](#), [Links](#)
-  **A rapamycin-selective 25-kDa immunophilin.**
 Biochemistry. 1992 Mar 3;31(8):2427-34.
 PMID: 1371698 [PubMed - indexed for MEDLINE]


-  **103:** [Pot DA, Woodford TA, Remboutsika E, Haun RS, Dixon JE.](#) [Related Articles, Links](#)



Cloning, bacterial expression, purification, and characterization of the cytoplasmic domain of rat LAR, a receptor-like protein tyrosine phosphatase.

J Biol Chem. 1991 Oct 15;266(29):19688-96.

PMID: 1918076 [PubMed - indexed for MEDLINE]


-  **104:** [Munier H, Gilles AM, Glaser P, Krin E, Danchin A, Sarfati R, Barzu O.](#) [Related Articles, Links](#)



Isolation and characterization of catalytic and calmodulin-binding domains of Bordetella pertussis adenylate cyclase.

Eur J Biochem. 1991 Mar 14;196(2):469-74.

PMID: 2007407 [PubMed - indexed for MEDLINE]

-  **105:** [Neilson EG, Sun MJ, Kelly CJ, Hines WH, Haverly TP, Clayman MD, Cooke NE.](#) [Related Articles, Links](#)



Molecular characterization of a major nephritogenic domain in the autoantigen of anti-tubular basement membrane disease.

Proc Natl Acad Sci U S A. 1991 Mar 1;88(5):2006-10.

PMID: 2000407 [PubMed - indexed for MEDLINE]


-  **106:** [Neame PJ, Young CN, Treep JT.](#) [Related Articles, Links](#)



Isolation and primary structure of PARP, a 24-kDa proline- and arginine-rich protein from bovine cartilage closely related to the NH2-terminal domain in collagen alpha 1 (XI).

J Biol Chem. 1990 Nov 25;265(33):20401-8.

PMID: 2243097 [PubMed - indexed for MEDLINE]

-  **107:** [Harte WE Jr, Swaminathan S, Mansuri MM, Martin JC, Rosenberg IE, Beveridge DL.](#) [Related Articles, Links](#)



Domain communication in the dynamical structure of human immunodeficiency virus 1 protease.

Proc Natl Acad Sci U S A. 1990 Nov;87(22):8864-8.

PMID: 2247458 [PubMed - indexed for MEDLINE]


-  **108:** [Neame PJ, Treep JT, Young CN.](#) [Related Articles, Links](#)



An 18-kDa glycoprotein from bovine nasal cartilage. Isolation and primary structure of small, cartilage-derived glycoprotein.

J Biol Chem. 1990 Jun 15;265(17):9628-33. Erratum in: J Biol Chem 1990 Dec 15;265(35):22056.

PMID: 2351661 [PubMed - indexed for MEDLINE]

-  **109:** [Olsen J, Cowell GM, Konigshofer E, Danielsen EM, Moller J, Laustsen L, Hansen OC, Welinder KG, Engberg J, Hunziker W, et al.](#) [Related Articles, Links](#)



Complete amino acid sequence of human intestinal aminopeptidase N as deduced from cloned cDNA.

FEBS Lett. 1988 Oct 10;238(2):307-14.

PMID: 2901990 [PubMed - indexed for MEDLINE]


-  **110:** [Kalb VF, Loper JC.](#) [Related Articles, Links](#)



Proteins from eight eukaryotic cytochrome P-450 families share a segmented region of sequence similarity.

Proc Natl Acad Sci U S A. 1988 Oct;85(19):7221-5.

PMID: 3050990 [PubMed - indexed for MEDLINE]

-  **111:** [Ichimura T, Isobe T, Okuyama T, Takahashi N, Araki K, Kuwano R, Takahashi Y.](#) [Related Articles, Links](#)

Molecular cloning of cDNA coding for brain-specific 14-3-3 protein, a



protein kinase-dependent activator of tyrosine and tryptophan hydroxylases.

Proc Natl Acad Sci U S A. 1988 Oct;85(19):7084-8.

PMID: 2902623 [PubMed - indexed for MEDLINE]



112: [Shames SL, Kimmel BE, Peoples OP, Agabian N, Walsh CT.](#)

[Related Articles, Links](#)



Trypanothione reductase of *Trypanosoma congolense*: gene isolation, primary sequence determination, and comparison to glutathione reductase.

Biochemistry. 1988 Jul 12;27(14):5014-9.

PMID: 3167026 [PubMed - indexed for MEDLINE]



113: [Crawford NM, Smith M, Bellissimo D, Davis RW.](#)

[Related Articles, Links](#)



Sequence and nitrate regulation of the *Arabidopsis thaliana* mRNA encoding nitrate reductase, a metalloflavoprotein with three functional domains.

Proc Natl Acad Sci U S A. 1988 Jul;85(14):5006-10.

PMID: 3393528 [PubMed - indexed for MEDLINE]



114: [Bazari WL, Matsudaira P, Wallek M, Smeal T, Jakes R, Ahmed Y.](#)

[Related Articles, Links](#)



Villin sequence and peptide map identify six homologous domains.

Proc Natl Acad Sci U S A. 1988 Jul;85(14):4986-90.

PMID: 2839826 [PubMed - indexed for MEDLINE]



115: [Trimble WS, Cowan DM, Scheller RH.](#)

[Related Articles, Links](#)



VAMP-1: a synaptic vesicle-associated integral membrane protein.

Proc Natl Acad Sci U S A. 1988 Jun;85(12):4538-42.

PMID: 3380805 [PubMed - indexed for MEDLINE]



116: [Toda T, Cameron S, Sass P, Wigler M.](#)

[Related Articles, Links](#)



SCH9, a gene of *Saccharomyces cerevisiae* that encodes a protein distinct from, but functionally and structurally related to, cAMP-dependent protein kinase catalytic subunits.

Genes Dev. 1988 May;2(5):517-27.

PMID: 3290050 [PubMed - indexed for MEDLINE]

Display

Summary

Show:

500

Sort

Send to

Text

Items 1-116 of 116

One page.

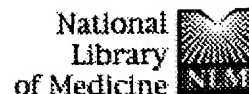
[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jun 7 2004 10:11:57



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for hGrb14 Go Clear
Limits Preview/Index History Clipboard Details

About Entrez

Display Summary Show: 500 Sort Send to Text

Text Version

☐ 1: Hemming R, Agatep R, Badiani K, Wyant K, Arthur G, Gietz RD, Triggs-Raine B. Related Articles, Links

Entrez PubMed

**Human growth factor receptor bound 14 binds the activated insulin receptor and alters the insulin-stimulated tyrosine phosphorylation levels of multiple proteins.**

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

Biochem Cell Biol. 2001;79(1):21-32.

PMID: 11235915 [PubMed - indexed for MEDLINE]

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

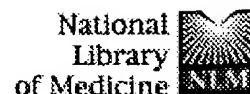
Clinical Alerts

ClinicalTrials.gov

PubMed Central

[Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Jun 7 2004 18:11:57



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search PubMed for Grb14

Limits Preview/Index History Clipboard Details

About Entrez

Show:

Text Version

Items 1-34 of 34

One page.

Entrez PubMed

Overview

Help | FAQ

Tutorial

New/Noteworthy

E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

LinkOut

Cubby

Related Resources

Order Documents

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

☐ 1: [King CC, Newton AC.](#)

[Related Articles, Links](#)



The adaptor protein Grb14 regulates the localization of 3-phosphoinositide dependent kinase-1 (PDK-1).

J Biol Chem. 2004 Jun 21 [Epub ahead of print]

PMID: 15210700 [PubMed - as supplied by publisher]

☐ 2: [Cariou B, Capitaine N, Le Marcis V, Vega N, Berezziat V, Kergoat M, Laville M, Girard J, Vidal H, Burnol AF.](#)

[Related Articles, Links](#)



Increased adipose tissue expression of Grb14 in several models of insulin resistance.

FASEB J. 2004 Jun;18(9):965-7. Epub 2004 Apr 01.

PMID: 15059968 [PubMed - in process]

☐ 3: [Cariou B, Berezziat V, Moncoq K, Kasus-Jacobi A, Perdureau D, Le Marcis V, Burnol AF.](#)

[Related Articles, Links](#)



Regulation and functional roles of Grb14.

Front Biosci. 2004 May 1;9:1626-36. Review.

PMID: 14977573 [PubMed - indexed for MEDLINE]

☐ 4: [Riedel H.](#)

[Related Articles, Links](#)



Grb10 exceeding the boundaries of a common signaling adapter.

Front Biosci. 2004 Jan 1;9:603-18. Review.

PMID: 14766395 [PubMed - indexed for MEDLINE]

☐ 5: [Lin MA, Riedel H, Liu F.](#)

[Related Articles, Links](#)



Grb10: more than a simple adaptor protein.

Front Biosci. 2004 Jan 1;9:387-403. Review.

PMID: 14766376 [PubMed - indexed for MEDLINE]

☐ 6: [Shen TL, Guan JL.](#)

[Related Articles, Links](#)



Grb7 in intracellular signaling and its role in cell regulation.

Front Biosci. 2004 Jan 1;9:192-200. Review.

PMID: 14766359 [PubMed - indexed for MEDLINE]

☐ 7: [Cooney GJ, Lyons RJ, Crew AJ, Jensen TE, Molero JC, Mitchell CJ, Biden TJ, Ormandy CJ, James DE, Daly RJ.](#)

[Related Articles, Links](#)



Improved glucose homeostasis and enhanced insulin signalling in Grb14-deficient mice.

EMBO J. 2004 Feb 11;23(3):582-93. Epub 2004 Jan 29.

PMID: 14749734 [PubMed - in process]

☐ 8: [Moncoq K, Broutin L, Larue V, Perdureau D, Cailliau K, Browaeys-Poly E, Burnol AF, Ducruix A.](#)


[Related Articles, Links](#)




The PIR domain of Grb14 is an intrinsically unstructured protein: implication in insulin signaling.


FEBS Lett. 2003 Nov 20;554(3):240-6.


PMID: 14623073 [PubMed - indexed for MEDLINE]

 **9:** [Gerritsen ME, Tomlinson JE, Zlot C, Ziman M, Hwang S.](#) [Related Articles, Links](#)

 Using gene expression profiling to identify the molecular basis of the synergistic actions of hepatocyte growth factor and vascular endothelial growth factor in human endothelial cells.


Br J Pharmacol. 2003 Oct;140(4):595-610. Epub 2003 Sep 22.
PMID: 14504135 [PubMed - in process]

 **10:** [Cailliau K, Le Marcis V, Bereziat V, Perdereau D, Cariou B, Vilain JP, Burnol AF, Browaeys-Poly E.](#) [Related Articles, Links](#)

 Inhibition of FGF receptor signalling in *Xenopus* oocytes: differential effect of Grb7, Grb10 and Grb14.


FEBS Lett. 2003 Jul 31;548(1-3):43-8.
PMID: 12885405 [PubMed - indexed for MEDLINE]

 **11:** [Chen D, Xu LG, Chen L, Li L, Zhai Z, Shu HB.](#) [Related Articles, Links](#)

 NIK is a component of the EGF/hereregulin receptor signaling complexes.


Oncogene. 2003 Jul 10;22(28):4348-55.
PMID: 12853971 [PubMed - indexed for MEDLINE]

 **12:** [Stein EG, Ghirlando R, Hubbard SR.](#) [Related Articles, Links](#)


 Structural basis for dimerization of the Grb10 Src homology 2 domain. Implications for ligand specificity.


J Biol Chem. 2003 Apr 11;278(15):13257-64. Epub 2003 Jan 27.
PMID: 12551896 [PubMed - indexed for MEDLINE]

 **13:** [Scharf PJ, Lyons BA.](#) [Related Articles, Links](#)

 Assignment of backbone ¹H, ¹³C, and ¹⁵N resonances of the SH2 domain of human Grb14.


J Biomol NMR. 2002 Nov;24(3):275-6.
PMID: 12522317 [PubMed - indexed for MEDLINE]

 **14:** [Cariou B, Perdereau D, Cailliau K, Browaeys-Poly E, Bereziat V, Vasseur-Cognet M, Girard J, Burnol AF.](#) [Related Articles, Links](#)


 The adapter protein ZIP binds Grb14 and regulates its inhibitory action on insulin signaling by recruiting protein kinase C ζ .


Mol Cell Biol. 2002 Oct;22(20):6959-70.
PMID: 12242277 [PubMed - indexed for MEDLINE]

 **15:** [Shen TL, Han DC, Guan JL.](#) [Related Articles, Links](#)


 Association of Grb7 with phosphoinositides and its role in the regulation of cell migration.


J Biol Chem. 2002 Aug 9;277(32):29069-77. Epub 2002 May 20.
PMID: 12021278 [PubMed - indexed for MEDLINE]

 **16:** [Pero SC, Oligino L, Daly RJ, Soden AL, Liu C, Roller PP, Li P, Krag DN.](#) [Related Articles, Links](#)

 Identification of novel non-phosphorylated ligands, which bind selectively to the SH2 domain of Grb7.

J Biol Chem. 2002 Apr 5;277(14):11918-26. Epub 2002 Jan 24.
PMID: 11809769 [PubMed - indexed for MEDLINE]

 **17:** [Bereziat V, Kasus-Jacobi A, Perdereau D, Cariou B, Girard J, Burnol AF.](#) [Related Articles, Links](#)

 Inhibition of insulin receptor catalytic activity by the molecular adapter Grb14.

J Biol Chem. 2002 Feb 15;277(7):4845-52. Epub 2001 Nov 28.
PMID: 11726652 [PubMed - indexed for MEDLINE]

 **18:** [Han DC, Shen TL, Guan JL.](#) [Related Articles, Links](#)

**The Grb7 family proteins: structure, interactions with other signaling molecules and potential cellular functions.**

Oncogene. 2001 Oct 1;20(44):6315-21. Review.

PMID: 11607834 [PubMed - indexed for MEDLINE]

19: [Stein EG, Gustafson TA, Hubbard SR.](#)[Related Articles, Links](#)**The BPS domain of Grb10 inhibits the catalytic activity of the insulin and IGF1 receptors.**

FEBS Lett. 2001 Mar 30;493(2-3):106-11.

PMID: 11287005 [PubMed - indexed for MEDLINE]

20: [Lyons RJ, Deane R, Lynch DK, Ye ZS, Sanderson GM, Eyre HJ, Sutherland GR, Daly RJ.](#)[Related Articles, Links](#)**Identification of a novel human tankyrase through its interaction with the adaptor protein Grb14.**

J Biol Chem. 2001 May 18;276(20):17172-80. Epub 2001 Feb 22.

PMID: 11278563 [PubMed - indexed for MEDLINE]

21: [Hemming R, Agatep R, Badiani K, Wyant K, Arthur G, Gietz RD, Triggs-Raine B.](#)[Related Articles, Links](#)**Human growth factor receptor bound 14 binds the activated insulin receptor and alters the insulin-stimulated tyrosine phosphorylation levels of multiple proteins.**

Biochem Cell Biol. 2001;79(1):21-32.

PMID: 11235915 [PubMed - indexed for MEDLINE]

22: [Kasus-Jacobi A, Bereziat V, Perdereau D, Girard J, Burnol AF.](#)[Related Articles, Links](#)**Evidence for an interaction between the insulin receptor and Grb7. A role for two of its binding domains, PIR and SH2.**

Oncogene. 2000 Apr 13;19(16):2052-9.

PMID: 10803466 [PubMed - indexed for MEDLINE]

23: [Reilly JF, Mickey G, Maher PA.](#)[Related Articles, Links](#)**Association of fibroblast growth factor receptor 1 with the adaptor protein Grb14. Characterization of a new receptor binding partner.**

J Biol Chem. 2000 Mar 17;275(11):7771-8.

PMID: 10713090 [PubMed - indexed for MEDLINE]

24: [Morrione A.](#)[Related Articles, Links](#)**Grb10 proteins in insulin-like growth factor and insulin receptor signaling (review).**

Int J Mol Med. 2000 Feb;5(2):151-4. Review.

PMID: 10639593 [PubMed - indexed for MEDLINE]

25: [Jones N, Master Z, Jones J, Bouchard D, Gunji Y, Sasaki H, Daly R, Alitalo K, Dumont DJ.](#)[Related Articles, Links](#)**Identification of Tek/Tie2 binding partners. Binding to a multifunctional docking site mediates cell survival and migration.**

J Biol Chem. 1999 Oct 22;274(43):30896-905.

PMID: 10521483 [PubMed - indexed for MEDLINE]

26: [Wojcik J, Girault JA, Labesse G, Chomilier J, Mornon JP, Callebaut I.](#)[Related Articles, Links](#)**Sequence analysis identifies a ras-associating (RA)-like domain in the N-termini of band 4.1/JEF domains and in the Grb7/10/14 adapter family.**

Biochem Biophys Res Commun. 1999 May 27;259(1):113-20.

PMID: 10334925 [PubMed - indexed for MEDLINE]

27: [Kasus-Jacobi A, Perdereau D, Auzan C, Clauser E, Van Obberghen E, Mauvais-Jarvis F, Girard J, Burnol AF.](#)[Related Articles, Links](#)

**Identification of the rat adapter Grb14 as an inhibitor of insulin actions.**

J Biol Chem. 1998 Oct 2;273(40):26026-35.

PMID: 9748281 [PubMed - indexed for MEDLINE]

**28:** [Nantel A, Mohammad-Ali K, Sherk J, Posner BL, Thomas DY.](#)[Related Articles, Links](#)**Interaction of the Grb10 adapter protein with the Raf1 and MEK1 kinases.**

J Biol Chem. 1998 Apr 24;273(17):10475-84.

PMID: 9553107 [PubMed - indexed for MEDLINE]

**29:** [He W, Rose DW, Olefsky JM, Gustafson TA.](#)[Related Articles, Links](#)**Grb10 interacts differentially with the insulin receptor, insulin-like growth factor I receptor, and epidermal growth factor receptor via the Grb10 Src homology 2 (SH2) domain and a second novel domain located between the pleckstrin homology and SH2 domains.**

J Biol Chem. 1998 Mar 20;273(12):6860-7.

PMID: 9506989 [PubMed - indexed for MEDLINE]

**30:** [Dong LQ, Du H, Porter SG, Kolakowski LF Jr, Lee AV, Mandarino LJ, Fan J, Yee D, Liu F, Mandarino J.](#)[Related Articles, Links](#)**Cloning, chromosome localization, expression, and characterization of an Src homology 2 and pleckstrin homology domain-containing insulin receptor binding protein hGrb10gamma.**

J Biol Chem. 1997 Nov 14;272(46):29104-12. Erratum in: J Biol Chem 1998 Feb 13;273(7):4288. Mandarino J[corrected to Mandarino LJ].

PMID: 9360986 [PubMed - indexed for MEDLINE]

**31:** [Janes PW, Lackmann M, Church WB, Sanderson GM, Sutherland RL, Daly RJ.](#)[Related Articles, Links](#)**Structural determinants of the interaction between the erbB2 receptor and the Src homology 2 domain of Grb7.**

J Biol Chem. 1997 Mar 28;272(13):8490-7.

PMID: 9079677 [PubMed - indexed for MEDLINE]

**32:** [Frantz JD, Giorgetti-Peraldi S, Ottinger EA, Shoelson SE.](#)[Related Articles, Links](#)**Human GRB-IRbeta/GRB10. Splice variants of an insulin and growth factor receptor-binding protein with PH and SH2 domains.**

J Biol Chem. 1997 Jan 31;272(5):2659-67.

PMID: 9006901 [PubMed - indexed for MEDLINE]

**33:** [Baker E, Sutherland GR, Sutherland RL, Daly RJ.](#)[Related Articles, Links](#)**Assignment of the human GRB14 gene to chromosome 2q22-q24 by fluorescence in situ hybridization.**

Genomics. 1996 Aug 15;36(1):218-20. No abstract available.

PMID: 8812444 [PubMed - indexed for MEDLINE]

**34:** [Daly RJ, Sanderson GM, Janes PW, Sutherland RL.](#)[Related Articles, Links](#)**Cloning and characterization of GRB14, a novel member of the GRB7 gene family.**

J Biol Chem. 1996 May 24;271(21):12502-10.

PMID: 8647858 [PubMed - indexed for MEDLINE]

Display

Summary

Show:

500

Sort

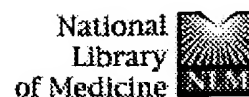
Send to

Text

Items 1-34 of 34

One page.

[Write to the Help Desk](#)[NCBI | NLM | NIH](#)[Department of Health & Human Services](#)[Privacy Statement | Freedom of Information Act | Disclaimer](#)



Entrez PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books
 Search PubMed for insulin receptor AND tyrosine kinase AND PIR Go Clear
 Limits Preview/Index History Clipboard Details

About Entrez

Display Summary Show: 500 Sort Send to Text

Text Version

Items 1-6 of 6

One page.

Entrez PubMed

Overview
 Help | FAQ
 Tutorial
 New/Noteworthy
 E-Utilities

PubMed Services

Journals Database
 MeSH Database
 Single Citation Matcher
 Batch Citation Matcher
 Clinical Queries
 LinkOut
 Cubby

Related Resources

Order Documents
 NLM Gateway
 TOXNET
 Consumer Health
 Clinical Alerts
 ClinicalTrials.gov
 PubMed Central

☐ 1: [Moncoq K, Broutin I, Larue V, Perdereau D, Cailliau K, Browaeys-Poly E, Burnol AF, Ducruix A.](#) Related Articles, Links

The PIR domain of Grb14 is an intrinsically unstructured protein: implication in insulin signaling.
 FEBS Lett. 2003 Nov 20;554(3):240-6.
 PMID: 14623073 [PubMed - indexed for MEDLINE]

☐ 2: [Cailliau K, Le Marcis V, Berezziat V, Perdereau D, Cariou B, Vilain JP, Burnol AF, Browaeys-Poly E.](#) Related Articles, Links

Inhibition of FGF receptor signalling in Xenopus oocytes: differential effect of Grb7, Grb10 and Grb14.
 FEBS Lett. 2003 Jul 31;548(1-3):43-8.
 PMID: 12885405 [PubMed - indexed for MEDLINE]

☐ 3: [Cariou B, Perdereau D, Cailliau K, Browaeys-Poly E, Berezziat V, Vasseur-Cognet M, Girard J, Burnol AF.](#) Related Articles, Links

The adapter protein ZIP binds Grb14 and regulates its inhibitory action on insulin signaling by recruiting protein kinase Czeta.
 Mol Cell Biol. 2002 Oct;22(20):6959-70.
 PMID: 12242277 [PubMed - indexed for MEDLINE]

☐ 4: [Berezziat V, Kasus-Jacobi A, Perdereau D, Cariou B, Girard J, Burnol AF.](#) Related Articles, Links

Inhibition of insulin receptor catalytic activity by the molecular adapter Grb14.
 J Biol Chem. 2002 Feb 15;277(7):4845-52. Epub 2001 Nov 28.
 PMID: 11726652 [PubMed - indexed for MEDLINE]

☐ 5: [Kasus-Jacobi A, Berezziat V, Perdereau D, Girard J, Burnol AF.](#) Related Articles, Links

Evidence for an interaction between the insulin receptor and Grb7. A role for two of its binding domains, PIR and SH2.
 Oncogene. 2000 Apr 13;19(16):2052-9.
 PMID: 10803466 [PubMed - indexed for MEDLINE]

☐ 6: [Kasus-Jacobi A, Perdereau D, Auzan C, Clauser E, Van Obberghen E, Mauvais-Jarvis F, Girard J, Burnol AF.](#) Related Articles, Links

Identification of the rat adapter Grb14 as an inhibitor of insulin actions.
 J Biol Chem. 1998 Oct 2;273(40):26026-35.
 PMID: 9748281 [PubMed - indexed for MEDLINE]

Display Summary Show: 500 Sort Send to Text

Items 1-6 of 6

One page.

[Write to the Help Desk](#)

[NCBI | NLM | NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Connecting via Winsock to STN
Welcome to STN International! Enter x:x
***** Welcome to STN International *****
***** STN Columbus *****

FILE 'HOME' ENTERED AT 15:31:08 ON 09 JUL 2004

=> file BIOSCIENCE

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

FILE 'ADISCTI' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'ADISINSIGHT' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'ADISNEWS' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Adis Data Information BV

FILE 'AGRICOLA' ENTERED AT 15:31:18 ON 09 JUL 2004

FILE 'ANABSTR' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (c) 2004 THE ROYAL SOCIETY OF CHEMISTRY (RSC)

FILE 'AQUASCI' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT 2004 FAO (On behalf of the ASFA Advisory Board). All rights reserved.

FILE 'BIOBUSINESS' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Biological Abstracts, Inc. (BIOSIS)

FILE 'BIOCOMMERCE' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 BioCommerce Data Ltd. Richmond Surrey, United Kingdom. All rights reserved

FILE 'BIOSIS' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC.(R)

FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

FILE 'BIOTECHDS' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 THOMSON DERWENT AND INSTITUTE FOR SCIENTIFIC INFORMATION

FILE 'BIOTECHNO' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'CABA' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 CAB INTERNATIONAL (CABI)

FILE 'CANCERLIT' ENTERED AT 15:31:18 ON 09 JUL 2004

FILE 'CAPLUS' ENTERED AT 15:31:18 ON 09 JUL 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'CEABA-VTB' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (c) 2004 DECHEMA eV

FILE 'CEN' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'CIN' ENTERED AT 15:31:18 ON 09 JUL 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

FILE 'CONFSCI' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'CROPB' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'CROPU' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DISSABS' ENTERED AT 15:31:18 ON 09 JUL 2004

COPYRIGHT (C) 2004 Proquest Information and Learning Company; All Rights Reserved.

FILE 'DDFB' ACCESS NOT AUTHORIZED

FILE 'DDFU' ACCESS NOT AUTHORIZED

FILE 'DGENE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DRUGB' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'DRUGMONOG2' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'IMSDRUGNEWS' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'DRUGU' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'IMSRESEARCH' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'EMBAL' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'EMBASE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Elsevier Inc. All rights reserved.

FILE 'ESBIOBASE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Elsevier Science B.V., Amsterdam. All rights reserved.

FILE 'FEDRIP' ENTERED AT 15:31:18 ON 09 JUL 2004

FILE 'FOMAD' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FOREGE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FROSTI' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Leatherhead Food Research Association

FILE 'FSTA' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 International Food Information Service

FILE 'GENBANK' ENTERED AT 15:31:18 ON 09 JUL 2004

FILE 'HEALSAFE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'IFIPAT' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 IFI CLAIMS(R) Patent Services (IFI)

FILE 'IMSPRODUCT' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 IMSWORLD Publications Ltd

FILE 'JICST-EPLUS' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Japan Science and Technology Agency (JST)

FILE 'KOSMET' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 International Federation of the Societies of Cosmetics Chemists

FILE 'LIFESCI' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'MEDICONF' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 FAIRBASE Datenbank GmbH, Hannover, Germany

FILE 'MEDLINE' ENTERED AT 15:31:18 ON 09 JUL 2004

FILE 'NIOSTIC' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 U.S. Secretary of Commerce on Behalf of the U.S. Government

FILE 'NTIS' ENTERED AT 15:31:18 ON 09 JUL 2004
Compiled and distributed by the NTIS, U.S. Department of Commerce.
It contains copyrighted material.

All rights reserved. (2004)

FILE 'NUTRACEUT' ENTERED AT 15:31:18 ON 09 JUL 2004
Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'OCEAN' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Cambridge Scientific Abstracts (CSA)

FILE 'PASCAL' ENTERED AT 15:31:18 ON 09 JUL 2004
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2004 INIST-CNRS. All rights reserved.

FILE 'PCTGEN' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 WIPO

FILE 'PHAR' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHARMAML' ENTERED AT 15:31:18 ON 09 JUL 2004
Copyright 2004 (c) MARKETLETTER Publications Ltd. All rights reserved.

FILE 'PHIC' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PHIN' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 PJB Publications Ltd. (PJB)

FILE 'PROMT' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Gale Group. All rights reserved.

FILE 'PROUSDDR' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Prous Science

FILE 'RDISCLOSURE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Kenneth Mason Publications Ltd.

FILE 'SCISEARCH' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT 2004 THOMSON ISI

FILE 'SYNTHLINE' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 Prous Science

FILE 'TOXCENTER' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 ACS

FILE 'USPATFULL' ENTERED AT 15:31:18 ON 09 JUL 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:31:18 ON 09 JUL 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'VETB' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'VETU' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPIDS' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPIFV' ENTERED AT 15:31:18 ON 09 JUL 2004
COPYRIGHT (C) 2004 THOMSON DERWENT

FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> s Grb14
57 FILES SEARCHED...
L1 360 GRB14

=> DUP REM L1
DUPLICATE IS NOT AVAILABLE IN 'ADISINSIGHT, ADISNEWS, BIOCOMMERCE, DGENE,
DRUGMONOG2, IMSRESEARCH, FEDRIP, FOREGE, GENBANK, IMSPRODUCT, KOSMET,
MEDICONF, NUTRACEUT, PCTGEN, PHAR, PHARMAML, PROUSDDR, RDISCLOSURE, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L1
L2 156 DUP REM L1 (204 DUPLICATES REMOVED)

=> D L2 1-156

L2 ANSWER 1 OF 156 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 1
AN 2004-13578 BIOTECHDS
TI Diagnosing pancreatic cancer (PNC) comprises determining a level of
expression of a PNC-associated gene in a patient derived biological
sample;
gene expression level determination and antisense sequence for use in
disease therapy and gene therapy
AU NAKAMURA Y; KATAGIRI T
PA ONCOTHERAPY SCI INC; UNIV TOKYO
PI WO 2004031412 15 Apr 2004
AI WO 2003-JP11817 17 Sep 2003
PRAI US 2003-450889 28 Feb 2003; US 2002-414872 30 Sep 2002
DT Patent
LA English
OS WPI: 2004-330205 [30]

L2 ANSWER 2 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
AN 2004:371064 CAPLUS
DN 140:373461
TI Evaluation of breast cancer states and outcomes using gene expression
profiles
IN West, Mike; Nevins, Joseph R.; Huang, Andrew
PA Synpac, Inc., USA
SO PCT Int. Appl., 799 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004037996	A2	20040506	WO 2003-US33656	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2004083084	A1	20040429	US 2002-291878	20021112
	US 2004106113	A1	20040603	US 2002-291886	20021112
PRAI	US 2002-420729P	P	20021024		
	US 2002-421062P	P	20021025		
	US 2002-421102P	P	20021025		
	US 2002-424701P	P	20021108		
	US 2002-424715P	P	20021108		
	US 2002-424718P	P	20021108		
	US 2002-291878	A	20021112		
	US 2002-291886	A	20021112		
	US 2002-425256P	P	20021112		
	WO 2002-US38216	A	20021112		
	WO 2002-US38222	A	20021112		
	US 2003-448461P	P	20030221		
	US 2003-448462P	P	20030221		
	US 2003-457877P	P	20030327		
	US 2003-458373P	P	20030331		

L2 ANSWER 3 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
AN 2004:311060 CAPLUS
DN 140:333607
TI Differentially nucleic acids and encoded proteins useful for diagnosing
testicular seminomas
IN Nakamura, Yusuke; Katagiri, Toyomasa
PA Oncotherapy Science, Inc., Japan; Japan as Represented by the President of
the University of Tokyo
SO PCT Int. Appl., 120 pp.
CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004031410	A2	20040415	WO 2003-JP11711	20030912
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2002-414677P	P	20020930		

L2 ANSWER 4 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4

AN 10614099 IFIPAT;IFIUDB;IFICDB

TI MRNA BINDING MOTIF

IN Balmer Lois (AU); Leedman Peter J (AU); Thomson Andrew (AU)

PA Unassigned Or Assigned To Individual (68000)

PI US 2004121323 A1 20040624

AI US 2000-168781 20001222

WO 2000-AU1595 20001222

20001222 PCT 371 date

20001222 PCT 102(e) date

PRAI AU 1999-4835 19991223

FI US 2004121323 20040624

DT Utility; Patent Application - First Publication

FS CHEMICAL
APPLICATION

CLMN 14

GI 16 Figure(s).

FIG. 1 shows a schematic of the Grb7 family members.

FIG. 2A, FIG. 2B, FIG. 2C, FIG. 2D, FIG. 2E and FIG. 2F show regulation of EGF-R mRNA expression by EGF in MDA-468 and BT-20 human breast cancer cells, including Northern, Western blot and actinomycin D chase assays.

FIG. 3A, FIG. 3B, FIG. 3C, FIG. 3D, FIG. 3E, FIG. 3F, FIG. 3G and FIG. 3H show a schematic of EGF-R mRNA, the clones generated for transfection and RNA electrophoretic gel mobility shift assay (REMSA), as well as data from transfections and cell free mRNA decay assay.

FIG. 4A, FIG. 4B, FIG. 4C, FIG. 4D and FIG. 4E show results of multiple transfections into breast cancer cells, and assays of mRNA decay using the LightCycler.

FIG. 5A and FIG. 5B show REMSA and UV cross-linking assays with a variety of cell extracts and riboprobes.

FIG. 6A and FIG. 6B show specificity of binding for the EGF-R mRNA probe used as bait in the yeast three-hybrid screening.

FIG. 7A, FIG. 7B, FIG. 7C and FIG. 7D show REMSA using sense and antisense DNA oligomers, as well as RNA probe mutants to define the RNA binding site within the EGF-R bait.

FIG. 8A, FIG. 8B and FIG. 8C show a schematic of the yeast threehybrid screening method, REMSA with Grb7 and other antibodies as well as a UV cross-linking Western assay using Grb7 antibodies (Sengupta et al., 1996).

FIG. 9A shows a schematic illustrating the amino acid homology between the Grb7 family members and the KH-motif. FIG. 9B and FIG. 9C show the predicted secondary structure of the Grb7 mRNA binding motif.

FIG. 10A and FIG. 10B show a schematic of Grb7 family member GSTfusion proteins, a REMSA using GST-Grb7 fusion protein with EGFR mRNA and REMSA with unlabeled RNA competitors.

FIG. 11A, FIG. 11B, FIG. 11C, FIG. 11D, FIG. 11E and FIG. 11F show a schematic of the GST-Grb7 mutants, REMSA using the Grb7 mutants with EGF-R 2/2A riboprobe and REMSA with different EGFR mRNA probes with each of the mutants demonstrating RNA specificity.

FIG. 12A and FIG. 12B show the sequence of the erbB-2 riboprobe used, and a REMSA showing binding of Grb7 and Grb10 to erbB-1 and erbB-2 mRNA.

FIG. 13A and FIG. 13B show REMSA binding of Grb7 and two mutants to EGF-R and erbB-2 mRNAs, together with sequence comparisons and stem-loop plots of the RNA structures.

FIG. 14A and FIG. 14B show binding by GST-Grb10 and GST-***Grb14*** to erbB-2 mRNA. A competition REMSA with tRNA using Grb7-M3 mutant confirmed specificity to the erbB-2 mRNA probe.

FIG. 15A and FIG. 15B show immunoprecipitation reverse transcriptase polymerase chain reaction (IP-RT-PCR) assay using Grb7 antibodies and EGF-R primers and a western blot of EGF-R levels in cells overexpressing Grb7.

FIG. 16 shows an actinomycin D chase to determine the rate of EGF-R mRNA decay in stably transfected MDA-468 cells that overexpress Grb7.

L2 ANSWER 5 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:449883 CAPLUS

DN 140:402911

TI Binary prediction tree modeling with many predictors and its uses in clinical and genomic applications

IN Nevins, Joseph R.; West, Mike; Huang, Andrew T.

PA Duke University, USA

SO PCT Int. Appl., 886 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004038376	A2	20040506	WO 2003-XA33946	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	WO 2004038376	A2	20040506	WO 2003-US33946	20031024
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2002-420729P	P	20021024		
	US 2002-421062P	P	20021025		
	US 2002-421102P	P	20021025		
	US 2002-424701P	P	20021108		
	US 2002-424715P	P	20021108		
	US 2002-424718P	P	20021108		
	US 2002-425256P	P	20021112		
	US 2003-448461P	P	20030221		
	US 2003-448462P	P	20030221		
	US 2003-457877P	P	20030327		
	US 2003-458373P	P	20030331		
	WO 2003-US33946	A	20031024		

L2 ANSWER 6 OF 156 USPATFULL on STN

AN 2004:50778 USPATFULL

TI Gene expression in bladder tumors

IN Orntoft, Torben F., Aabyhoj, DENMARK

PI US 2004038207 A1 20040226

AI US 2001-951968 A1 20010914 (9)

RLI Division of Ser. No. US 2000-510643, filed on 22 Feb 2000, UNKNOWN

DT Utility

FS APPLICATION

LN.CNT 28561

INCL INCLM: 435/006.000

NCL NCLM: 435/006.000

IC [7]

ICM: C12Q001-68

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 7 OF 156 USPATFULL on STN

AN 2004:24686 USPATFULL

TI Methods and compositions for the prediction, diagnosis, prognosis,
 prevention and treatment of malignant neoplasma
 IN Wirtz, Ralph, Koln, GERMANY, FEDERAL REPUBLIC OF
 Munnes, Marc, Erkrath, GERMANY, FEDERAL REPUBLIC OF
 Kallabis, Harald, Koln, GERMANY, FEDERAL REPUBLIC OF
 PA Bayer Aktiengesellschaft, Leverkusen, GERMANY, FEDERAL REPUBLIC OF, D
 51368 (non-U.S. corporation)
 PI US 2004018525 A1 20040129
 AI US 2003-435696 A1 20030509 (10)
 PRAI EP 2002-10291 20020521
 EP 2003-3112 20030213
 DT Utility
 FS APPLICATION
 LN.CNT 12945
 INCL INCLM: 435/006.000
 NCL NCLM: 435/006.000
 IC [7]
 ICM: C12Q001-68
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 8 OF 156 USPATFULL on STN
 AN 2004:13596 USPATFULL
 TI Novel proteins and nucleic acids encoding same
 IN Guo, Xiaojia, Branford, CT, UNITED STATES
 Fernandes, Elma, Branford, CT, UNITED STATES
 Li, Li, Branford, CT, UNITED STATES
 Kekuda, Ramesh, Stamford, CT, UNITED STATES
 Liu, Yi, New Haven, CT, UNITED STATES
 Leite, Mario, Milford, CT, UNITED STATES
 Spytek, Kimberly A., New Haven, CT, UNITED STATES
 Ji, Weizhen, Branford, CT, UNITED STATES
 Casman, Stacie J., North Haven, CT, UNITED STATES
 Boldog, Ference L., North Haven, CT, UNITED STATES
 Patturajan, Meera, Branford, CT, UNITED STATES
 Vernet, Corine A. M., Branford, CT, UNITED STATES
 Ballinger, Robert A., Newington, CT, UNITED STATES
 Malyankar, Uriel M., Branford, CT, UNITED STATES
 Tchernev, Velizar T., Branford, CT, UNITED STATES
 Blalock, Angela D., Branford, CT, UNITED STATES
 Gusev, Vladimir Y., Madison, CT, UNITED STATES
 Rastelli, Luca, Guilford, CT, UNITED STATES
 Mezes, Peter D., Old Lyme, CT, UNITED STATES
 Ellerman, Karen, Branford, CT, UNITED STATES
 Heyes, Melvyn, New Haven, CT, UNITED STATES
 Herrmann, John L., Guilford, CT, UNITED STATES
 Shimkets, Richard A., Guilford, CT, UNITED STATES
 Ioime, Noelle, Hamden, CT, UNITED STATES
 Pena, Carol E. A., New Haven, CT, UNITED STATES
 Shenoy, Suresh G., Branford, CT, UNITED STATES
 Taupier, Raymond J., JR., East Haven, CT, UNITED STATES
 Gerlach, Valerie, Branford, CT, UNITED STATES
 Gorman, Linda, East Haven, CT, UNITED STATES
 PI US 2004010119 A1 20040115
 AI US 2002-74978 A1 20020212 (10)
 PRAI US 2001-268221P 20010212 (60)
 US 2001-268496P 20010213 (60)
 US 2001-268665P 20010214 (60)
 US 2001-268646P 20010214 (60)
 US 2001-269136P 20010215 (60)
 US 2001-269310P 20010216 (60)
 US 2001-269530P 20010216 (60)
 US 2001-276405P 20010315 (60)
 US 2001-276703P 20010316 (60)
 US 2001-276399P 20010316 (60)
 US 2001-278199P 20010323 (60)
 US 2001-279274P 20010328 (60)
 US 2001-280238P 20010330 (60)
 US 2001-280899P 20010402 (60)
 US 2001-310797P 20010808 (60)
 US 2001-312284P 20010814 (60)
 US 2001-322294P 20010914 (60)
 US 2001-322295P 20010914 (60)
 US 2001-330293P 20011018 (60)
 US 2001-335104P 20011031 (60)
 US 2001-335109P 20011031 (60)
 US 2001-332127P 20011121 (60)

DT US 2001-331772P 20011121 (60)
FS Utility
LN.CNT APPLICATION
INCL 23189
INCL INCLM: 530/350.000
INCLS: 514/012.000; 435/006.000; 435/069.100; 435/320.100; 435/325.000;
536/023.200
NCL NCLM: 530/350.000
NCLS: 514/012.000; 435/006.000; 435/069.100; 435/320.100; 435/325.000;
536/023.200
IC [7]
ICM: C12Q001-68
ICS: C07H021-04; A61K038-17; C07K014-435; C07K014-47; C12P021-02;
C12N005-06

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 9 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
AN 2004:539519 CAPLUS
TI Regulation and functional roles of ***Grb14***
AU Cariou, Bertrand; Bereziat, Veronique; Moncoq, Karine; Kasus-Jacobi, Anne;
Perdereau, Dominique; Le Marcis, Veronique; Burnol, Anne-Francoise
CS Dep. Endocrinol., Inst. Cochin INSERM U 567-CNRS UMR 8104, Univ. Rene
Descartes, Paris, 75014, Fr.
SO Frontiers in Bioscience (2004), 9(2), 1626-1636
CODEN: FRBIF6; ISSN: 1093-4715
URL: <http://www.bioscience.org/2004/v9/af/1228/pdf.pdf>
PB Frontiers in Bioscience
DT Journal; (online computer file)
LA English

L2 ANSWER 10 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 2004:240131 SCISEARCH
GA The Genuine Article (R) Number: 779ZA
TI Regulation and functional roles of ***Grb14***
AU Cariou B; Bereziat V; Moncoq K; Kasus-Jacobi A; Perdereau D; Le Marcis V;
Burnol A F (Reprint)
CS Univ Paris 05, CNRS, UMR 8104, Dept Endocrinol, INSERM, U567, Inst Cochin,
F-75014 Paris, France (Reprint); Fac Pharm Paris V, Lab Cristallog & RMN
Biol, F-75006 Paris, France
CYA France
SO FRONTIERS IN BIOSCIENCE, (MAY 2004) Vol. 9, pp. 1626-1636.
Publisher: FRONTIERS IN BIOSCIENCE INC, C/O NORTH SHORE UNIV HOSPITAL,
BIOMEDICAL RESEARCH CENTER, 350 COMMUNITY DR, MANHASSET, NY 11030 USA.
ISSN: 1093-9946.
DT Article; Journal
LA English
REC Reference Count: 86
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 11 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:471136 CAPLUS
TI Increased adipose tissue expression of ***Grb14*** in several models
of insulin resistance
AU Carfiou, Bertrand; Capitaine, Nadege; Le Marcis, Veronique; Vega,
Nathalie; Bereziat, Veronique; Kergoat, Micheline; Laville, Martine;
Girard, Jean; Vidal, Hubert; Burnol, Anne-Francoise
CS Dep. d'Endocrinol., Inst. Cochin INSERM U 567-CNRS UMR 8104, Univ. Rene
Descartes, Paris, 75674, Fr.
SO FASEB Journal (2004), 18(9), 965-967, 10.1096/fj.03-0824fje
CODEN: FAJOEC; ISSN: 0892-6638
PB Federation of American Societies for Experimental Biology
DT Journal
LA English
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 12 OF 156 MEDLINE on STN
AN 2004279843 IN-PROCESS
DN PubMed ID: 15059968
TI Increased adipose tissue expression of ***Grb14*** in several models
of insulin resistance.
AU Cariou Bertrand; Capitaine Nadege; Le Marcis Veronique; Vega Nathalie;
Bereziat Veronique; Kergoat Micheline; Laville Martine; Girard Jean; Vidal
Hubert; Burnol Anne-Francoise
CS Departement d'Endocrinologie, Institut Cochin INSERM U 567-CNRS UMR
8104-Universite Rene Descartes, Paris, France.

SO FASEB journal : official publication of the Federation of American
Societies for Experimental Biology, (2004 Jun) 18 (9) 965-7.
Journal code: 8804484. ISSN: 1530-6860.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20040608
Last Updated on STN: 20040608

L2 ANSWER 13 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 6
AN 2004:114768 CAPLUS
DN 140:315199
TI Grb10 exceeding the boundaries of a common signaling adapter
AU Riedel, Heimo
CS Department of Biological Sciences, Wayne State University, Detroit, MI,
48202, USA
SO Frontiers in Bioscience (2004), 9(1), 603-618
CODEN: FRBIF6; ISSN: 1093-4715
URL: <http://www.bioscience.org/2004/v9/af/1227/pdf.pdf>
PB Frontiers in Bioscience
DT Journal; General Review; (online computer file)
LA English
RE.CNT 105 THERE ARE 105 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 14 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 2003:1051167 SCISEARCH
GA The Genuine Article (R) Number: 746XW
TI Grb10 exceeding the boundaries of a common signaling adapter
AU Riedel H (Reprint)
CS Wayne State Univ, Dept Biol Sci, 2171 BSB, Detroit, MI 48202 USA
(Reprint); Wayne State Univ, Dept Biol Sci, Detroit, MI 48202 USA
CYA USA
SO FRONTIERS IN BIOSCIENCE, (JAN 2004) Vol. 9, pp. 603-618.
Publisher: FRONTIERS IN BIOSCIENCE INC, C/O NORTH SHORE UNIV HOSPITAL,
BIOMEDICAL RESEARCH CENTER, 350 COMMUNITY DR, MANHASSET, NY 11030 USA.
ISSN: 1093-9946.
DT General Review; Journal
LA English
REC Reference Count: 105
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 15 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 7
AN 2004:244934 BIOSIS
DN PREV200400246629
TI Improved glucose homeostasis and enhanced insulin signalling in
Grb14 -deficient mice.
AU Cooney, Gregory J.; Lyons, Ruth J.; Crew, A. Jayne; Jensen, Thomas E.;
Molero, Juan Carlos; Mitchell, Christopher J.; Biden, Trevor J.; Ormandy,
Christopher J.; James, David E.; Daly, Roger J. [Reprint Author]
CS Cancer Research Program, Garvan Institute of Medical Research, 384
Victoria St, Sydney, NSW, 2010, Australia
r.daly@garvan.org.au
SO EMBO (European Molecular Biology Organization) Journal, (11 February 2004)
Vol. 23, No. 3, pp. 582-593. print.
ISSN: 0261-4189 (ISSN print).
DT Article
LA English
ED Entered STN: 6 May 2004
Last Updated on STN: 6 May 2004

L2 ANSWER 16 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 8
AN 2004:114729 CAPLUS
DN 140:214448
TI Grb10: more than a simple adaptor protein
AU Lim, Mei A.; Riedel, Heimo; Liu, Feng
CS Department of Pharmacology, University of Texas Health Science Center at
San Antonio, San Antonio, TX, 78229, USA
SO Frontiers in Bioscience (2004), 9(1), 387-403
CODEN: FRBIF6; ISSN: 1093-4715
URL: <http://www.bioscience.org/2004/v9/af/1226/pdf.pdf>
PB Frontiers in Bioscience
DT Journal; General Review; (online computer file)
LA English

RE.CNT 103 THERE ARE 103 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 17 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 9
AN 2004:114784 CAPLUS
DN 140:160771
TI GRB7 in intracellular signaling and its role in cell regulation
AU Shen, Tang-Long; Guan, Jun-Lin
CS Department of Molecular Medicine, Cornell University, Ithaca, NY, 14853,
USA
SO Frontiers in Bioscience (2004), 9(1), 192-200
CODEN: FRBIF6; ISSN: 1093-4715
URL: <http://www.bioscience.org/2004/v9/af/1229/pdf.pdf>
PB Frontiers in Bioscience
DT Journal; General Review; (online computer file)
LA English

RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 18 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2004:282607 BIOSIS
DN PREV200400277875
TI Increased adipose tissue expression of ***Grb14*** in several models
of insulin resistance.
AU Cariou, Bertrand; Capitaine, Nadege; Le Marcis, Veronique; Vega, Nathalie;
Bereziate, Veronique; Kergoat, Micheline; Laville, Martine; Girard, Jean;
Vidal, Hubert; Burnol, Anne- Francoise [Reprint Author]
CS CNRSUMR 8104INSERM,U567,Inst Cochin,Dept Endocrinol, Univ Paris 05,
F-75674, Paris, France
burnol@cochin.inserm.fr
SO FASEB Journal, (April 2004) Vol. 18, No. 6, pp. NIL_0336-NIL_0356. print.
ISSN: 0892-6638 (ISSN print).
DT Article
LA English
ED Entered STN: 9 Jun 2004
Last Updated on STN: 9 Jun 2004

L2 ANSWER 19 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 2004:415366 SCISEARCH
GA The Genuine Article (R) Number: 816KM
TI Increased adipose tissue expression of ***Grb14*** in several models
of insulin resistance
AU Cariou B; Capitaine N; Le Marcis V; Vega N; Bereziate V; Kergoat M; Laville
M; Girard J; Vidal H; Burnol A F (Reprint)
CS Univ Paris 05, CNRS, UMR 8104, INSERM, U567, Inst Cochin, Dept Endocrinol,
F-75674 Paris, France (Reprint); Fac Med R Laennec, Ctr Rech & Nutr
Humaine Lyon, Lyon, France; Hop Edouard Herriot, Serv Endocrinol Diabetol
& Nutr, Lyon, France
CYA France
SO FASEB JOURNAL, (APR 2004) Vol. 18, No. 6.
Publisher: FEDERATION AMER SOC EXP BIOL, 9650 ROCKVILLE PIKE, BETHESDA, MD
20814-3998 USA.
ISSN: 0892-6638.
DT Article; Journal
LA English
REC Reference Count: 36
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 20 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and
Learning Company; All Rights Reserved on STN
AN 2003:43622 DISSABS Order Number: AAI3075524
TI Structural and functional analysis of the BPS and SH2 domains of Grb10
AU Stein, Evan Gary [Ph.D.]; Hubbard, Stevan R. [advisor]
CS New York University (0146)
SO Dissertation Abstracts International, (2003) Vol. 63, No. 12B, p. 5687.
Order No.: AAI3075524. 91 pages.
ISBN: 0-493-95827-4.
DT Dissertation
FS DAI
LA English

L2 ANSWER 21 OF 156 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN
DUPLICATE 10
AN 2004-01504 BIOTECHDS
TI Screening for drugs using altered expression of specified genes in
frontal lobe or hippocampus of depression model animal, and diagnosis of

depression;
animal model and biochip for use in drug screening and disease therapy

PA RIKAGAKU KENKYUSHO
PI JP 2003274949 30 Sep 2003
AI JP 2002-81502 22 Mar 2002
PRAI JP 2002-81502 22 Mar 2002; JP 2002-81502 22 Mar 2002
DT Patent
LA Japanese
OS WPI: 2003-822458 [77]

L2 ANSWER 22 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 11
AN 10399185 IFIPAT;IFIUDB;IFICDB
TI DIAGNOSIS OF DISEASES ASSOCIATED WITH THE IMMUNE SYSTEM BY DETERMINING
CYTOSINE METHYLATION
IN Berlin Kurt (DE); Olek Alexander (DE); Piepenbrock Christian (DE)
PA Unassigned Or Assigned To Individual (68000)
PI US 2003143606 A1 20030731
AI US 2002-311455 20021216
WO 2001-EP7537 20010702
20021216 PCT 371 date
20021216 PCT 102(e) date
PRAI DE 2000-10032529 20000630
DE 2000-10043826 20000901
FI US 2003143606 20030731
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 31

L2 ANSWER 23 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 12
AN 10385219 IFIPAT;IFIUDB;IFICDB
TI GDU, A NOVEL SIGNALLING PROTEIN
IN Daly Roger John (AU); Sutherland Robert Lyndsay (AU)
PA Unassigned Or Assigned To Individual (68000)
PI US 2003129639 A1 20030710
AI US 2002-323001 20021218
RLI WO 1996-AU258 19960502 Section 371 PCT Filing UNKNOWN
US 1998-945771 19980422 DIVISION 6465623
US 2002-242332 20020911 DIVISION
PRAI AU 1995-2742 19950502
FI US 2003129639 20030710
US 6465623
DT Utility; Patent Application - First Publication
FS CHEMICAL
APPLICATION
CLMN 9
GI 3 Figure(s).

FIG. 1 shows a schematic representation of *****Grb14***** structure with a restriction map for the *****Grb14***** cDNA and the cDNA clones used to derive the *****Grb14***** sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The *****Grb14***** cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of *****Grb14*****. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between *****Grb14*****, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of *****Grb14*****, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 24 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 13
AN 10360583 IFIPAT;IFIUDB;IFICDB
TI METHODS AND COMPOSITIONS FOR INHIBITING GRB7; ADMINISTERING A
NON-PHOSPHORYLATED TRIPEPTIDES
IN Krag David N; Oligino Lyn; Pero Stephanie C
PA Unassigned Or Assigned To Individual (68000)

PI US 2003105000 A1 20030605
 AI US 2001-13815 20011105
 PRAI US 2000-245755P 20001103 (Provisional)
 FI US 2003105000 20030605
 DT Utility; Patent Application - First Publication
 FS CHEMICAL
 APPLICATION
 CLMN 93
 GI 16 Figure(s).

FIG. 1 is a histogram showing the binding of Grb7 binding peptides (G7BP) to the SH2 domain of human Grb7 by ELISA.
 FIG. 2 is a histogram showing the binding of a control phage clone to the SH2 domain of Grb2 but not to the SH2 domain of Grb7.
 FIG. 3 is a histogram showing the effect of mutation on a G7BP-4 phage clone on its ability to bind to the SH2 domain of Grb7.
 FIG. 4 is a histogram showing the binding specificity of seven Grb7 binding peptides to the SH2 domains of Grb7, Grb7 beta D5beta D6, ***Grb14***, full length Grb2, and BSA using a phage ELISA.
 FIG. 5A is a graph showing the inhibition of G7-18 peptide-phage binding to Grb7-SH2 with the free synthetic peptides G7-18, G718NATE and G7-8.
 FIG. 5B is a graph showing the inhibition of G7-8NA peptidephage binding to Grb7-SH2 with the free synthetic peptides G7-8, G7-8NA and G7-8NATE.
 FIG. 6A is a graph showing G7-18NATE inhibits the association of Grb7 with the ErbB family of receptors, as detected by antiphosphotyrosine.
 FIG. 6B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software, showing G7-18NATE inhibits the association of Grb7, not Grb2, with the ErbB family in a dose-dependent manner.
 FIG. 7A is a graph showing that G7-18NATE inhibits the association of Grb7 with ErbB3 specifically in a dose-dependent manner, as detected by anti-ErbB3 FIG. 7B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software showing that G7-18NATE inhibits the association of Grb7 with ErbB3 in a dose-dependent manner.
 FIG. 8A is a graph showing that G7-18NATE inhibits the association of Grb7 with ErbB2 specifically in a dose-dependent manner, as detected by anti-ErbB2.
 FIG. 8B is a densitometric analysis of autoradiographs using the Biorad Fluor-S Multimager with Quantity One 4.2.1 software showing that G7-18NATE inhibits the association of Grb7 with ErbB2 in a dose-dependent manner.
 FIG. 9A is one possible chemical structure for G7BP-4NATE (SEQ ID NO:50). Other thioether linkages are illustrated in FIGS. 9B, 9C, 9D and 9E, and it is to be understood that any of these linkages can be used in the formation of G7BP-4NATE.
 FIG. 9B is the structure of a thioether containing peptide (G1TE). This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.
 FIG. 9C is another possible structure for the thioether containing peptide GI TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.
 FIG. 9D is another possible structure for the thioether containing peptide G1TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.
 FIG. 9E is another possible structure for the thioether containing peptide GI TE. This structure illustrates one possible thioether linkage between the N and C terminals of a peptide that can be used in the thioether containing peptides of the invention.

L2 ANSWER 25 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 14
 AN 10300425 IFIPAT;IFIUDB;IFICDB
 TI GDU, A NOVEL SIGNALLING PROTEIN; NUCLEOTIDE SEQUENCES CODING POLYPEPTIDE FOR USE IN THE DIAGNOSIS, TREATMENT AND PREVENTION OF CANCER
 IN Daly Roger John (AU); Sutherland Robert Lyndsay (AU)
 PA Unassigned Or Assigned To Individual (68000)
 PI US 2003044834 A1 20030306
 AI US 2002-242332 20020911
 RLI WO 1996-AU258 19960502 Section 371 PCT Filing UNKNOWN
 US 1998-945771 19980422 DIVISION 6465623
 PRAI AU 1995-2742 19950502
 FI US 2003044834 20030306
 US 6465623
 DT Utility; Patent Application - First Publication

FS CHEMICAL
APPLICATION

CLMN 9

GI 3 Figure(s).

FIG. 1 shows a schematic representation of ***Grb14*** structure with a restriction map for the ***Grb14*** cDNA and the cDNA clones used to derive the ***Grb14*** sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The ***Grb14*** cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of ***Grb14***. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between ***Grb14***, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of ***Grb14***, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 26 OF 156 USPATFULL on STN

AN 2003:330145 USPATFULL

TI Skin cell biomarkers and methods for identifying biomarkers using nucleic acid microarrays

IN Dooley, Thomas P., Vestavia Hills, AL, UNITED STATES

Curto, Ernest V., Huntsville, AL, UNITED STATES

Davis, Richard L., JR., Homewood, AL, UNITED STATES

PI US 2003232356 A1 20031218

AI US 2003-361006 A1 20030210 (10)

PRAI US 2002-354519P 20020208 (60)

DT Utility

FS APPLICATION

LN.CNT 1897

INCL INCLM: 435/006.000

INCLS: 702/020.000

NCL NCLM: 435/006.000

NCLS: 702/020.000

IC [7]

ICM: C12Q001-68

ICS: G06F019-00; G01N033-48; G01N033-50

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 27 OF 156 USPATFULL on STN

AN 2003:225702 USPATFULL

TI Polynucleotide encoding a novel pleckstrin homology domain and proline rich domain containing adapter protein, PMN29

IN Finger, Joshua N., San Marcos, CA, UNITED STATES

Perez-Villar, Juan J., Mercerville, NJ, UNITED STATES

Rajashekar, Reddy, Langhorne, PA, UNITED STATES

Yang, Guchen, Morrisville, PA, UNITED STATES

Kiener, Peter A., Doylestown, PA, UNITED STATES

PI US 2003157514 A1 20030821

AI US 2002-234816 A1 20020904 (10)

PRAI US 2001-317063P 20010904 (60)

DT Utility

FS APPLICATION

LN.CNT 13865

INCL INCLM: 435/006.000

INCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;

435/007.200

NCL NCLM: 435/006.000

NCLS: 435/069.100; 435/320.100; 435/325.000; 530/350.000; 536/023.500;

435/007.200

IC [7]

ICM: C12Q001-68

ICS: G01N033-53; G01N033-567; C07H021-04; C12P021-02; C12N005-06;

C07K014-47

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 28 OF 156 USPATFULL on STN
AN 2003:37578 USPATFULL
TI Specimen-linked G protein coupled receptor database
IN Muraca, Patrick J., Pittsfield, MA, UNITED STATES
PI US 2003027223 A1 20030206
AI US 2002-184694 A1 20020628 (10)
PRAI US 2001-302316P 20010629 (60)
DT Utility
FS APPLICATION
LN.CNT 3618
INCL INCLM: 435/007.210
INCLS: 702/019.000
NCL NCLM: 435/007.210
NCLS: 702/019.000
IC [7]
ICM: G01N033-567
ICS: G06F019-00; G01N033-48; G01N033-50
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 29 OF 156 USPATFULL on STN
AN 2003:222015 USPATFULL
TI Compositions for the detection of blood cell and immunological response
gene expression
IN Cocks, Benjamin G., Sunnyvale, CA, United States
Stuart, Susan G., Montara, CA, United States
Seilhamer, Jeffrey J., Los Altos Hills, CA, United States
PA Incyte Corporation, Palo Alto, CA, United States (U.S. corporation)
PI US 6607879 B1 20030819
AI US 1998-23655 19980209 (9)
DT Utility
FS GRANTED
LN.CNT 3719
INCL INCLM: 435/006.000
INCLS: 435/069.100; 536/023.100; 536/024.100; 536/024.300; 536/024.310;
536/024.320; 536/024.330
NCL NCLM: 435/006.000
NCLS: 435/069.100; 536/023.100; 536/024.100; 536/024.300; 536/024.310;
536/024.320; 536/024.330
IC [7]
ICM: C12Q001-68
ICS: C07H021-00
EXF 435/6; 435/69.1; 536/22.1; 536/23.1; 536/24.1; 536/24.3-24.33
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 30 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 15
AN 2003:254017 BIOSIS
DN PREV200300254017
TI Structural basis for dimerization of the Grb10 src homology 2 domain.
Implications for ligand specificity.
AU Stein, Evan G.; Ghirlando, Rodolfo; Hubbard, Stevan R. [Reprint Author]
CS Skirball Institute of Biomolecular Medicine, New York University School of
Medicine, 540 First Ave., New York, NY, 10016, USA
hubbard@saturn.med.nyu.edu
SO Journal of Biological Chemistry, (April 11 2003) Vol. 278, No. 15, pp.
13257-13264. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
ED Entered STN: 28 May 2003
Last Updated on STN: 28 May 2003

L2 ANSWER 31 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 16
AN 2003:355616 BIOSIS
DN PREV200300355616
TI NIK is a component of the EGF/hereregulin receptor signaling complexes.
AU Chen, Danying; Xu, Liang-Guo; Chen, Lei; Li, Lixia; Zhai, Zhonghe; Shu,
Hong-Bing [Reprint Author]
CS Department of Immunology, National Jewish Medical and Research Center,
University of Colorado Health Sciences Center, 1400 Jackson Street, K516c,
Denver, CO, 80206, USA
shuh@njc.org
SO Oncogene, (10 July 2003) Vol. 22, No. 28, pp. 4348-4355. print.
ISSN: 0950-9232 (ISSN print).
DT Article

LA English
ED Entered STN: 6 Aug 2003
Last Updated on STN: 6 Aug 2003

L2 ANSWER 32 OF 156 LIFESCI COPYRIGHT 2004 CSA on STN
AN 2003:53872 LIFESCI
TI The Grb10/Nedd4 Complex Regulates Ligand-Induced Ubiquitination and
Stability of the Insulin-Like Growth Factor I Receptor
AU Vecchione, A.; Marchese, A.; Henry, P.; Rotin, D.; Morrione, A.*
CS Department of Urology and Kimmel Cancer Center, Thomas Jefferson
University, BLSB Room 631, 233 South 10th St., Philadelphia, PA 19107;
E-mail: Andrea.Morrione@mail.tju.edu
SO Molecular and Cellular Biology [Mol. Cell. Biol.], (20030500) vol. 23, no.
9, pp. 3363-3372.
ISSN: 0270-7306.
DT Journal
FS G
LA English
SL English

L2 ANSWER 33 OF 156 DRUGU COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2004-08282 DRUGU P B
TI Imatinib induces mitochondria-dependent apoptosis of the Bcr-Abl-positive
K562 cell line and its differentiation toward the erythroid lineage.
AU Jacquelin A; Herrant M; Legros L; Belhacene N; Luciano F; Pages G; Hofman
P; Auberger P
LO Nice, Fr.
SO FASEB J. (17, No. 14, 2160-62, 2003) 3 Fig.
CODEN: FAJOEC ISSN: 0892-6638
AV INSERM U526, Physiopathologie de la Survie et de la Mort Cellulaires et
Infections Virales Equipe Labellisee par la LNC, 06107 Nice-Cedex 2,
France. (P.A.). (e-mail: auberger@unice.fr).
LA English
DT Journal
FA AB; LA; CT
FS Literature

L2 ANSWER 34 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2003:476188 BIOSIS
DN PREV200300476188
TI Characterization of a novel gene (HGP1) potentially involved in
osteosarcoma progression.
AU Eppert, Kolja [Reprint Author]; Aneliunas, Vicky [Reprint Author]; Wunder,
Jay S. [Reprint Author]; Andrusis, Irene L. [Reprint Author]
CS Fred A. Litwin Centre for Cancer Genetics, Samuel Lunenfeld Research
Institute, Mount Sinai Hospital, Toronto, ON, Canada
SO Proceedings of the American Association for Cancer Research Annual
Meeting, (July 2003) Vol. 44, pp. 1041-1042. print.
Meeting Info.: 94th Annual Meeting of the American Association for Cancer
Research. Washington, DC, USA. July 11-14, 2003.
ISSN: 0197-016X.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 15 Oct 2003
Last Updated on STN: 15 Oct 2003

L2 ANSWER 35 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 17
AN 2004:49749 BIOSIS
DN PREV200400053388
TI Using gene expression profiling to identify the molecular basis of the
synergistic actions of hepatocyte growth factor and vascular endothelial
growth factor in human endothelial cells.
AU Gerritsen, Mary E. [Reprint Author]; Tomlinson, James E.; Zlot, Constance;
Ziman, Michael; Hwang, Stuart
CS 541 Parrott Drive, San Mateo, CA, 94402, USA
meg570@comcast.net
SO British Journal of Pharmacology, (October 2003) Vol. 140, No. 4, pp.
595-610. print.
ISSN: 0007-1188 (ISSN print).
DT Article
LA English
ED Entered STN: 21 Jan 2004
Last Updated on STN: 21 Jan 2004

L2 ANSWER 36 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 18
AN 2003:451765 BIOSIS
DN PREV200300451765
TI Carcinogen mediated initiation of glial progenitors in the rat brain
results in marked dependency of proliferation and differentiation by
insulin and FGF-2.
AU Kokkinakis, Demetrius Michael [Reprint Author]; Yang, Shuting [Reprint
Author]
CS University of Pittsburgh, Pittsburgh, PA, USA
SO Proceedings of the American Association for Cancer Research Annual
Meeting, (July 2003) Vol. 44, pp. 482. print.
Meeting Info.: 94th Annual Meeting of the American Association for Cancer
Research. Washington, DC, USA. July 11-14, 2003.
ISSN: 0197-016X.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 1 Oct 2003
Last Updated on STN: 1 Oct 2003

L2 ANSWER 37 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 19
AN 2003:587917 BIOSIS
DN PREV200300570714
TI The PIR domain of ***Grb14*** is an intrinsically unstructured
protein: Implication in insulin signaling.
AU Moncoq, Karine; Broutin, Isabelle [Reprint Author]; Larue, Valery;
Perdereau, Dominique; Cailliau, Katia; Browaeys-Poly, Edith; Burnol,
Anne-Francoise; Ducruix, Arnaud
CS Laboratoire de Cristallographie et RMN Biologiques, Faculte de Pharmacie
Paris 5, 4 avenue de l'Observatoire, 75270, Paris Cedex, 06, France
broutin@pharmacie.univ-paris5.fr
SO FEBS Letters, (20 November 2003) Vol. 554, No. 3, pp. 240-246. print.
CODEN: FEBLAL. ISSN: 0014-5793.
DT Article
LA English
ED Entered STN: 10 Dec 2003
Last Updated on STN: 10 Dec 2003

L2 ANSWER 38 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 20
AN 2003:390017 BIOSIS
DN PREV200300390017
TI Inhibition of FGF receptor signalling in Xenopus oocytes: Differential
effect of Grb7, Grb10 and ***Grb14*** .
AU Cailliau, Katia; Le Marcis, Veronique; Bereziat, Veronique; Perdereau,
Dominique; Cariou, Bertrand; Vilain, Jean Pierre; Burnol, Anne-Francoise;
Browaeys-Poly, Edith [Reprint Author]
CS Laboratoire de Biologie du Developpement, Universite des Sciences;
Technologies de Lille, UPRES UA 1033, IFR 118, Batiment SN3, Villeneuve
d'Ascq Cedex, France
edith.browaeys@univ-lille1.fr
SO FEBS Letters, (31 July 2003) Vol. 548, No. 1-3, pp. 43-48. print.
CODEN: FEBLAL. ISSN: 0014-5793.
DT Article
LA English
ED Entered STN: 27 Aug 2003
Last Updated on STN: 27 Aug 2003

L2 ANSWER 39 OF 156 DISSABS COPYRIGHT (C) 2004 Proquest Information and
Learning Company; All Rights Reserved on STN
AN 2004:5360 DISSABS Order Number: AAIMQ78889
TI Mitochondrial membrane binding and protein complexing of the
anti-apoptotic adaptor protein Grb10
AU Hassard, Jennifer L. [M.Sc.]; Thomas, David [advisor]
CS McGill University (Canada) (0781)
SO Masters Abstracts International, (2002) Vol. 41, No. 6, p. 1674. Order
No.: AAIMQ78889. 75 pages.
ISBN: 0-612-78889-X.
DT Dissertation
FS MAI
LA English
ED Entered STN: 20040107
Last Updated on STN: 20040107

L2 ANSWER 40 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 21
 AN 2002:285562 CAPLUS
 DN 137:61578
 TI Expressed gene sets as markers for specific tumors
 IN Ramaswamy, Sridhar; Golub, Todd B.; Tamayo, Pablo; Angelo, Michael
 PA Whitehead Institute for Biomedical Research, USA; Dana-Farber Cancer
 Institute, Inc.
 SO PCT Int. Appl., 715 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002024956	A2	20020328	WO 2001-XB29287	20010919
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	WO 2002024956	A2	20020328	WO 2001-US29287	20010919
	WO 2002024956	C1	20030306		
	WO 2002024956	A3	20030626		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
PRAI	US 2000-233534P	P	20000919		
	US 2001-278749P	P	20010326		
	WO 2001-US29287	W	20010919		

L2 ANSWER 41 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 22
 AN 10142689 IFIPAT;IFIUDB;IFICDB
 TI GDU, A NOVEL SIGNALLING PROTEIN; IT MAY PROVIDE A TARGET IN DISEASES OR CONDITIONS IN WHICH PLATELET DERIVED GROWTH FACTOR RECEPTOR (PDGFR) PLAYS A REGULATORY ROLE E.G. WOUND HEALING, FIBROTIC CONDITIONS, ATHEROSCLEROSIS
 IN DALY ROGER JOHN (AU); SUTHERLAND ROBERT LINDSAY (AU)
 PA Unassigned or Assigned To Individual (68000)
 PPA Garvan Institute of Medical Research AU (Probable)
 PI US 2002086328 A1 20020704
 AI US 1998-945771 19980422
 WO 1996-US258 19960502
 FI US 2002086328 20020704
 US 6465623 20021015
 DT Utility; Patent Application - First Publication
 FS CHEMICAL
 APPLICATION
 CLMN 9
 GI 3 Figure(s).

FIG. 1 shows a schematic representation of ***Grb14*** structure with a restriction map for the ***Grb14*** cDNA and the cDNA clones used to derive the ***Grb14*** sequence aligned underneath. The initial clone isolated by CORT screening was designated clone 1. Two other clones (1-1 and 1-2) were isolated from the 184 cell line library by screening using clone 1 as a probe. The ***Grb14*** cDNA sequence was completed using two clones L5 and L6, isolated from a human liver cDNA library. Abbreviations are as follows: A; Apa I; Av; Avr II, X; Xho I; E; Eco RI. The numbers refer to distance in bp.

FIG. 2 shows the nucleotide and amino acid sequence of ***Grb14***. The PH domain is underlined and the SH2 domain indicated by bold type. The translation termination codon is shown by an asterisk in the amino acid sequence. Numbers refer to distances in bp.

FIG. 3 shows the sequence homology between ***Grb14***, Grb7, Grb10 and F10E9.6. As alignment of the amino acid sequences of ***Grb14***, mouse Grb7, mouse Grb10 and C. elegans F10E9.6 was obtained using the computer programs Clustal W and SeqVu. Identical residues are boxed. A

highly conserved proline-rich motif is indicated by the dotted underline, the PH domain by the broken underline and the SH2 domain by the bold underline. Only the central region of F10E9.6 exhibiting homology with the Grb7 family is shown. Amino acid residues for each protein are numbered (from the initiation methionine) on the right.

L2 ANSWER 42 OF 156 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 23
 AN 10094016 IFIPAT;IFIUDB;IFICDB
 TI POTENTIAL EFFECTOR FOR THE GRB7 FAMILY OF SIGNALLING PROTEINS; NUCLEOTIDE SEQUENCES CODING SIGNAL TRANSDUCTION PLYPEPTIDE; FOR USE IN THE DIAGNOSIS AND TREATMENT OF CANCERS
 IN DALY ROGER JOHN (AU); SUTHERLAND ROBERT L (AU)
 PA Unassigned Or Assigned To Individual (68000)
 PI US 2002037582 A1 20020328
 AI US 2000-509196 20000323
 WO 1998-AU795 19980923
 PRAI AU 1997-9388 19970923
 FI US 2002037582 20020328
 DT Utility; Patent Application - First Publication
 FS CHEMICAL APPLICATION
 CLMN 15
 GI 2 Figure(s).

FIG. 1 provides the nucleotide and amino acid (single letter code) sequence of 2.2412. Numbers refer to distances in base pairs. Ankyrin-type repeat sequences are underlined. An additional repeat sequence is indicated by italics. The stop codon is represented by all asterisk. The original cDNA clone 2. 2412 isolated by the two hybrid screen spans nucleotides 6942664 of this sequence.

FIG. 2 provides a map of the 2.2412-binding region on ***Grb14***. A. Structure of the deletion constructs used in the analysis. Gal4 DNA-BD fusion constructs encoding full length ***Grb14*** (FL), the Nterminal (N), central region (C) and N-terminal+central region (N+C) were generated in the vector pAS2.1. B. Results of betagalactosidase activity assays following transformation of the above plasmids into yeast strain Y190 together with the original 2.2412 cDNA clone in pACT-2.

L2 ANSWER 43 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:10730 CAPLUS
 DN 136:49326
 TI Diagnosis of diseases associated with the immune system using oligomer probes to detect cytosine methylation state
 IN Olek, Alexander; Piepenbrock, Christian; Berlin, Kurt
 PA Epigenomics A.-G., Germany
 SO PCT Int. Appl., 32 pp.
 CODEN: PIXXD2

DT Patent
 LA German
 FAN.CNT 68

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002000928	A2	20020103	WO 2001-EP7537	20010702
	WO 2002000928	A3	20020801		
	W:		AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
	RW:		GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
DE	10032529	A1	20020207	DE 2000-10032529	20000630
EP	1274865	A2	20030115	EP 2001-953936	20010406
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
JP	2003531589	T2	20031028	JP 2001-575634	20010406
EP	1360319	A2	20031112	EP 2001-955278	20010406
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		
DE	20121961	U1	20040129	DE 2001-20121961	20010629
DE	20121971	U1	20040205	DE 2001-20121971	20010629
DE	20121979	U1	20040205	DE 2001-20121979	20010629
EP	1294951	A2	20030326	EP 2001-967115	20010702
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR		

DE	20121966	U1	20031224	DE	2001-20121966	20010702
DE	20121963	U1	20040129	DE	2001-20121963	20010702
DE	20121967	U1	20040129	DE	2001-20121967	20010702
DE	20121975	U1	20040219	DE	2001-20121975	20010702
DE	20121978	U1	20040219	DE	2001-20121978	20010702
US	2003143606	A1	20030731	US	2002-311455	20021216
US	2004067491	A1	20040408	US	2003-240454	20030311
US	2003162194	A1	20030828	US	2003-240452	20030414
JP	2004008217	A2	20040115	JP	2003-160375	20030605
US	2004023279	A1	20040205	US	2003-455212	20030605
PRAI	DE 2000-10032529	A	20000630			
	DE 2000-10043826	A	20000901			
	DE 2000-10019058	A	20000406			
	DE 2000-10019173	A	20000407			
	WO 2001-EP3969	W	20010406			
	WO 2001-EP4016	W	20010406			
	EP 2001-967115	A	20010702			
	WO 2001-EP7537	W	20010702			
	EP 2002-90203	A	20020605			

L2 ANSWER 44 OF 156 USPATFULL on STN
AN 2002:315083 USPATFULL
TI Nucleic acid sequences associated with baldness
IN Pritchard, David, Seattle, WA, UNITED STATES
Burmer, Glenna, Seattle, WA, UNITED STATES
Brown, Joseph, Seattle, WA, UNITED STATES
Demas, Vasiliki, Seattle, WA, UNITED STATES
PI US 2002177566 A1 20021128
AI US 2001-825096 A1 20010402 (9)
PRAI US 2000-199745P 20000425 (60)
DT Utility
FS APPLICATION
LN.CNT 3768
INCL INCLM: 514/044.000
INCLS: 435/006.000; 435/007.210; 424/070.100
NCL NCLM: 514/044.000
NCLS: 435/006.000; 435/007.210; 424/070.100
IC [7]
ICM: A61K048-00
ICS: C12Q001-68; G01N033-567; A61K007-06
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 45 OF 156 USPATFULL on STN
AN 2002:181561 USPATFULL
TI Process for in vitro selection of high methol producing genotypes
IN Khanuja, Suman Preet Singh, Lucknow, INDIA
Shasany, Ajit Kumar, Lucknow, INDIA
Dhawan, Sunita, Lucknow, INDIA
Darokar, Mahendra Pandurang, Lucknow, INDIA
Kumar, Tiruppadiripuliyur Ranganathan Santha, Lucknow, INDIA
Saikia, Dharmendra, Lucknow, INDIA
Naqui, Arif Ali, Lucknow, INDIA
Kumar, Sushil, Lucknow, INDIA
PA Council of Scientific&Industrial Reaearch, New Delhi, INDIA (non-U.S. corporation)
PI US 6423541 B1 20020723
AI US 2000-531768 20000321 (9)
DT Utility
FS GRANTED
LN.CNT 741
INCL INCLM: 435/420.000
INCLS: 435/410.000; 435/421.000; 435/430.000; 435/430.100; 435/431.000
NCL NCLM: 435/420.000
NCLS: 435/410.000; 435/421.000; 435/430.000; 435/430.100; 435/431.000
IC [7]
ICM: C12N005-00
EXF 435/410; 435/420; 435/421; 435/430; 435/430.1; 435/431
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 46 OF 156 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2002-547451 [58] WPIDS
DNC C2002-155181
TI Treatment or prophylaxis of a subject having a disorder characterized by abnormal interaction of Grb7 and a Grb7 ligand, involves administering to a non-phosphorylated peptide to a subject in need of the treatment.
DC B04 D16

IN KRAG, D N; OLIGINO, L; PERO, S C
 PA (UYVE-N) UNIV VERMONT & STATE AGRIC COLLEGE; (KRAG-I) KRAG D N; (OLIG-I)
 OLIGINO L; (PERO-I) PERO S C
 CYC 23
 PI WO 2002036142 A2 20020510 (200258)* EN 95 A61K038-00
 RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
 W: AU CA JP
 AU 2002020265 A 20020515 (200258) A61K038-00
 US 2003105000 A1 20030605 (200339) A61K038-17
 ADT WO 2002036142 A2 WO 2001-US47400 20011105; AU 2002020265 A AU 2002-20265
 20011105; US 2003105000 A1 Provisional US 2000-245755P 20001103, US
 2001-13815 20011105
 FDT AU 2002020265 A Based on WO 2002036142
 PRAI US 2000-245755P 20001103; US 2001-13815 20011105
 IC ICM A61K038-00; A61K038-17

L2 ANSWER 47 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 24
 AN 2002:492206 BIOSIS
 DN PREV200200492206
 TI Association of Grb7 with phosphoinositides and its role in the regulation
 of cell migration.
 AU Shen, Tang-Long; Han, Dong Cho; Guan, Jun-Lin [Reprint author]
 CS Department of Molecular Medicine, Cornell University, Ithaca, NY, 14853,
 USA
 jg19@cornell.edu
 SO Journal of Biological Chemistry, (August 9, 2002) vol. 277, No. 32, pp.
 29069-29077. print.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 ED Entered STN: 18 Sep 2002
 Last Updated on STN: 18 Sep 2002

L2 ANSWER 48 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 25
 AN 2002:292126 BIOSIS
 DN PREV200200292126
 TI Identification of novel non-phosphorylated ligands, which bind selectively
 to the SH2 domain of Grb7.
 AU Pero, Stephanie C.; Oligino, Lyn; Daly, Roger J.; Soden, Amy L.; Liu,
 Chen; Roller, Peter P.; Li, Peng; Krag, David N. [Reprint author]
 CS Department of Surgery, University of Vermont School of Medicine, Given
 Medical Building, Rm. E309, Burlington, VT, 05405, USA
 David.Krag@uvm.edu
 SO Journal of Biological Chemistry, (April 5, 2002) vol. 277, No. 14, pp.
 11918-11926. print.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 ED Entered STN: 15 May 2002
 Last Updated on STN: 15 May 2002

L2 ANSWER 49 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:875636 CAPLUS
 DN 138:151170
 TI Comparative analysis of mutation frequency of coding and non coding short
 mononucleotide repeats in mismatch repair deficient colorectal cancers
 AU Duval, Alex; Reperant, Maryline; Hamelin, Richard
 CS INSERM U434, CEPH, Paris, Fr.
 SO Oncogene (2002), 21(52), 8062-8066
 CODEN: ONCNES; ISSN: 0950-9232
 PB Nature Publishing Group
 DT Journal
 LA English
 RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 50 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 26
 AN 2002:529717 BIOSIS
 DN PREV200200529717
 TI The adapter protein ZIP binds ***Grb14*** and regulates its inhibitory
 action on insulin signaling by recruiting protein kinase Czeta.
 AU Cariou, Bertrand; Perdureau, Dominique; Cailliau, Katia; Browaeys-Poly,
 Edith; Bereziat, Veronique; Vasseur-Cognet, Mireille; Girard, Jean;

CS Burnol, Anne-Francoise [Reprint author]
Departement d'Endocrinologie, Institut Cochin, CNRS-INSERM-Universite Rene
Descartes, 24 Rue du Faubourg Saint-Jacques, 75674, Paris, France
burnol@cochin.inserm.fr
SO Molecular and Cellular Biology, (October, 2002) Vol. 22, No. 20, pp.
6959-6970. print.
CODEN: MCEBD4. ISSN: 0270-7306.
DT Article
LA English
ED Entered STN: 16 Oct 2002
Last Updated on STN: 16 Oct 2002

L2 ANSWER 51 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 27
AN 2002:207358 BIOSIS
DN PREV200200207358
TI Inhibition of insulin receptor catalytic activity by the molecular adapter
Grb14
AU Bereziat, Veronique; Kasus-Jacobi, Anne; Perdereau, Dominique; Cariou,
Bertrand; Girard, Jean; Burnol, Anne-Francoise [Reprint author]
CS Endocrinologie et Metabolisme, CNRS UPR 1524, Institut Cochin de Genetique
Moleculaire, 24 rue du Faubourg Saint-Jacques, 75674, Paris Cedex, 14,
France
burnol@cochin.inserm.fr
SO Journal of Biological Chemistry, (February 15, 2002) Vol. 277, No. 7, pp.
4845-4852. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
ED Entered STN: 20 Mar 2002
Last Updated on STN: 20 Mar 2002

L2 ANSWER 52 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:3572 CAPLUS
DN 138:382650
TI Ontogeny and the possible function of a novel epidermal growth factor-like
repeat domain-containing protein, NELL2, in the rat brain
AU Kim, Hyun; Ha, Chang Man; Choi, Jungil; Choi, Eun Jung; Jeon, Jongrye;
Kim, Changmee; Park, Sang Kyu; Kang, Sang Soo; Kim, Kyungjin; Lee, Byung
Ju
CS Department of Anatomy, Brain Korea 21 Biomedical Sciences, Korea
University College of Medicine, Seoul, S. Korea
SO Journal of Neurochemistry (2002), 83(6), 1389-1400
CODEN: JONRA9; ISSN: 0022-3042
PB Blackwell Science Ltd.
DT Journal
LA English
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 53 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:396091 BIOSIS
DN PREV200200396091
TI Gene expression profiling of endometrial carcinomas: Identification of
molecular biomarkers.
AU Yap, Oi Wah Stephanie [Reprint author]; Zhu, Shirley [Reprint author]; van
de Rijn, Matt [Reprint author]; Longacre, Teri [Reprint author]; Teng,
Nelson [Reprint author]; Husain, Amreen [Reprint author]
CS Stanford University Medical Center, Stanford, CA, USA
SO Proceedings of the American Association for Cancer Research Annual
Meeting, (March, 2002) vol. 43, pp. 746. print.
Meeting Info.: 93rd Annual Meeting of the American Association for Cancer
Research. San Francisco, California, USA. April 06-10, 2002.
ISSN: 0197-016X.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 24 Jul 2002
Last Updated on STN: 24 Jul 2002

L2 ANSWER 54 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 2002:207936 SCISEARCH
GA The Genuine Article (R) Number: 524UV
TI Comparison of gene expression in old versus young rat hippocampus by cDNA
array
AU Cho K S; Choi J G; Ha C M; Son Y J; Choi W S; Lee B J (Reprint)

CS Univ Ulsan, Dept Biol Sci, Ulsan 680749, South Korea (Reprint); Gyeongsang
 Natl Univ, Coll Med, Dept Anat, chinju 660280, South Korea
 CYA South Korea
 SO NEUROREPORT, (4 MAR 2002) Vol. 13, No. 3, pp. 285-289.
 Publisher: LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA
 19106-3621 USA.
 ISSN: 0959-4965.
 DT Article; Journal
 LA English
 REC Reference Count: 26
 ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L2 ANSWER 55 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 28
 AN 2003:124261 BIOSIS
 DN PREV200300124261
 TI Assignment of backbone 1H, 13C, and 15N resonances of the SH2 domain of
 human ***Grb14***
 AU Scharf, Paul J.; Lyons, Barbara A. [Reprint Author]
 CS Department of Biochemistry, College of Medicine, University of Vermont,
 Burlington, VT, 05405, USA
 blyons@zoo.uvm.edu
 SO Journal of Biomolecular NMR, (November 2002) Vol. 24, No. 3, pp. 275-276.
 print.
 ISSN: 0925-2738 (ISSN print).
 DT Article
 LA English
 ED Entered STN: 5 Mar 2003
 Last Updated on STN: 5 Mar 2003

L2 ANSWER 56 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 2002:524711 SCISEARCH
 GA The Genuine Article (R) Number: 557XP
 TI The atypical PKC-Interacting protein ZIP binds ***Grb14*** and
 potentiates its inhibitory action on insulin signaling
 AU Cariou B (Reprint); Perdereau D; Cailliau K; Browaeys-Poly E; Bereziat V;
 Girard J; Burnol A F
 SO DIABETES, (JUN 2002) Vol. 51, supp. [2], pp. A56-A56. MA 228.
 Publisher: AMER DIABETES ASSOC, 1660 DUKE ST, ALEXANDRIA, VA 22314 USA.
 ISSN: 0012-1797.
 DT Conference; Journal
 LA English
 REC Reference Count: 0

L2 ANSWER 57 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 2003:155451 BIOSIS
 DN PREV200300155451
 TI Proteomic Study on the Retinas of RD, RDS and C3B Mice as Well as
 Reconfirming of the Differentially Expressed Proteins by Using RT-PCT.
 AU Li, D. [Reprint Author]; Zhang, Q. J.
 CS Ocular Genetics and Molec Bio, Zhonghsan Ophthalmic Ctr, Guanzhou, China
 SO ARVO Annual Meeting Abstract Search and Program Planner, (2002) Vol. 2002,
 pp. Abstract No. 3629. cd-rom.
 Meeting Info.: Annual Meeting of the Association For Research in Vision
 and Ophthalmology. Fort Lauderdale, Florida, USA. May 05-10, 2002.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 26 Mar 2003
 Last Updated on STN: 26 Mar 2003

L2 ANSWER 58 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:798473 CAPLUS
 DN 135:340282
 TI Nucleic acid sequences associated with baldness and uses in detecting the
 likelihood of baldness and for gene therapy
 IN Pritchard, David; Burmer, Glenna; Brown, Joseph; Demas, Vasiliki
 PA Lifespan Biosciences, Inc., USA
 SO PCT Int. Appl., 87 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001081628	A1	20011101	wo 2001-US12184	20010413

WO 2001081628 C2 20021227
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM,
HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002177566 A1 20021128 US 2001-825096 20010402

PRAI US 2000-199745P P 20000425

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 59 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 29
AN 2001:390236 BIOSIS
DN PREV200100390236
TI Identification of a novel human tankyrase through its interaction with the
adaptor protein ***Grb14***
AU Lyons, Ruth J.; Deane, Roisin; Lynch, Danielle K.; Ye, Zheng-Sheng
Jeffrey; Sanderson, Georgina M.; Eyre, Helen J.; Sutherland, Grant R.;
Daly, Roger J. [Reprint author]
CS Cancer Research Program, Garvan Institute of Medical Research, St.
Vincent's Hospital, Sydney, NSW, 2010, Australia
r.daly@garvan.org.au
SO Journal of Biological Chemistry, (May 18, 2001) Vol. 276, No. 20, pp.
17172-17180. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
OS Genbank-AF329696
ED Entered STN: 15 Aug 2001
Last Updated on STN: 23 Feb 2002

L2 ANSWER 60 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 30
AN 2001:514026 BIOSIS
DN PREV200100514026
TI The Grb7 family proteins: Structure, interactions with other signaling
molecules and potential cellular functions.
AU Han, Dong Cho; Shen, Tang-Long; Guan, Jun-Lin [Reprint author]
CS Cancer Biology Laboratories, Department of Molecular Medicine, Cornell
University, Ithaca, NY, 14853, USA
jg19@cornell.edu
SO Oncogene, (1 October, 2001) Vol. 20, No. 44, pp. 6315-6321. print.
CODEN: ONCNES. ISSN: 0950-9232.
DT Article
General Review; (Literature Review)
LA English
ED Entered STN: 7 Nov 2001
Last Updated on STN: 23 Feb 2002

L2 ANSWER 61 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:634713 CAPLUS
DN 135:342315
TI Extensive characterization of genetic alterations in a series of human
colorectal cancer cell lines
AU Gayet, Jacqueline; Zhou, Xiao-Ping; Duval, Alex; Rolland, Sandra; Hoang,
Jean-Marc; Cottu, Paul; Hamelin, Richard
CS INSERM U434 - CEPH, Paris, 75010, Fr.
SO Oncogene (2001), 20(36), 5025-5032
CODEN: ONCNES; ISSN: 0950-9232
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 62 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 31
AN 2001:170169 CAPLUS
DN 135:270832
TI Evolution of instability at coding and non-coding repeat sequences in
human MSI-H colorectal cancers
AU Duval, Alex; Rolland, Sandra; Compoint, Aurore; Tubacher, Emmanuel;

Iacopetta, Barry; Thomas, Gilles; Hamelin, Richard
CS INSERM U434, CEPH, Paris, 75010, Fr.
SO Human Molecular Genetics (2001), 10(5), 513-518
CODEN: HMGEE5; ISSN: 0964-6906
PB Oxford University Press
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 63 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 32
AN 2001:209006 BIOSIS
DN PREV200100209006
TI The BPS domain of Grb10 inhibits the catalytic activity of the insulin and
IGF1 receptors.
AU Stein, Evan G.; Gustafson, Thomas A.; Hubbard, Stevan R. [Reprint author]
CS Department of Pharmacology, Skirball Institute of Biomolecular Medicine,
New York University School of Medicine, 540 First Avenue, New York, NY,
10016, USA
hubbard@tallis.med.nyu.edu
SO FEBS Letters, (30 March, 2001) Vol. 493, No. 2-3, pp. 106-111. print.
CODEN: FEBLAL. ISSN: 0014-5793.
DT Article
LA English
ED Entered STN: 2 May 2001
Last Updated on STN: 18 Feb 2002

L2 ANSWER 64 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 2002:69396 BIOSIS
DN PREV200200069396
TI Inhibition of insulin receptors tyrosine kinase activity by the molecular
adapter ***Grb14***
AU Bereziat, V. [Reprint author]; Kasus-Jacobi, A. [Reprint author];
Perdereau, D. [Reprint author]; Girard, J. [Reprint author]; Burnol, A.-F.
[Reprint author]
CS CNRS UPR1524, ICGM, 9 rue Jules Hetzel, 92190, Meudon, France
SO Biochemical Society Transactions, (2001) Vol. 29, No. 3, pp. A69. print.
Meeting Info.: 673rd Bristol Meeting of the Biochemical Society. Bristol,
London, UK. April 10-12, 2000. Biochemical Society.
CODEN: BCSTB5. ISSN: 0300-5127.
DT Conference; (Meeting)
Conference; Abstract; (Meeting Abstract)
LA English
ED Entered STN: 16 Jan 2002
Last Updated on STN: 25 Feb 2002

L2 ANSWER 65 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 33
AN 2001:131521 CAPLUS
DN 134:202914
TI Human growth factor receptor bound 14 binds the activated insulin receptor
and alters the insulin-stimulated tyrosine phosphorylation levels of
multiple proteins
AU Hemming, Richard; Agatep, Ronald; Badiani, Ketan; Wyant, Kerrie; Arthur,
Gilbert; Gietz, R. Daniel; Triggs-Raine, Barbara
CS Department of Biochemistry & Medical Genetics, University of Manitoba,
Winnipeg, MB, R3E 0W3, Can.
SO Biochemistry and Cell Biology (2001), 79(1), 21-32
CODEN: BCBIEQ; ISSN: 0829-8211
PB National Research Council of Canada
DT Journal
LA English
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 66 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and
Learning Company; All Rights Reserved on STN
AN 2001:8470 DISSABS Order Number: AAINQ49934
TI Identification and characterization of downstream signaling partners of
the endothelial cell-specific receptor tyrosine kinase, Tek/Tie-2
AU Jones, Nina [Ph.D.]; Dumont, Daniel J. [adviser]
CS University of Toronto (Canada) (0779)
SO Dissertation Abstracts International, (2000) Vol. 61, No. 6B, p. 2900.
Order No.: AAINQ49934. 175 pages.
ISBN: 0-612-49934-0.
DT Dissertation

FS DAI
LA English

L2 ANSWER 67 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and
Learning Company; All Rights Reserved on STN
AN 2001:38658 DISSABS Order Number: AAIMQ51679
TI The insulin signaling pathway: Evidence that Tax1bp1/Txbp151 is a dimeric
human ***Grb14*** interacting protein
AU Agatep, Ronald [M.Sc.]; Gietz, R. D. [adviser]
CS The University of Manitoba (Canada) (0303)
SO .bul. cts International, (2000) Vol. 39, No. 1, p. 151. Order
No.: AAIMQ51679. 143 pages.
ISBN: 0-612-51679-2.

DT Dissertation
FS MAI
LA English

L2 ANSWER 68 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 34
AN 2000:666978 CAPLUS
DN 133:247252

TI ***Grb14*** proteins for screening compounds capable of modulating
insulin receptor tyrosine kinase activity
IN Burnol, Anne-Francoise; Perdereau, Dominique; Kasus-Jacobi, Anne;
Bereziat, Veronique; Girard, Jean
PA Centre National De La Recherche Scientifique-CNRS, Fr.
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2

DT Patent
LA French

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000055634	A1	20000921	WO 2000-FR613	20000314
	W: AU, CA, JP, NZ, US, ZA				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	FR 2790956	A1	20000922	FR 1999-3159	19990315
	FR 2790956	B1	20030523		
	EP 1161687	A1	20011212	EP 2000-910938	20000314
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	NZ 514668	A	20030829	NZ 2000-514668	20000314
	ZA 2001007546	A	20020829	ZA 2001-7546	20010913
PRAI	FR 1999-3159	A	19990315		
	WO 2000-FR613	W	20000314		

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 69 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 35

AN 2000:345087 BIOSIS
DN PREV200000345087

TI Association of fibroblast growth factor receptor 1 with the adaptor
protein ***Grb14***. Characterization of a new receptor binding
partner.

AU Reilly, John F.; Mickey, Gregory; Maher, Pamela A. [Reprint author]
CS Dept. of Cell Biology, The Scripps Research Institute, 10550 N. Torrey
Pines Rd., CAL-3, La Jolla, CA, 92037, USA
SO Journal of Biological Chemistry, (March 17, 2000) Vol. 275, No. 11, pp.
7771-7778. print.
CODEN: JBCHA3. ISSN: 0021-9258.

DT Article
LA English

ED Entered STN: 16 Aug 2000
Last Updated on STN: 7 Jan 2002

L2 ANSWER 70 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 36

AN 2000:224729 BIOSIS
DN PREV200000224729

TI Evidence for an interaction between the insulin receptor and Grb7. A role
for two of its binding domains, PIR and SH2.

AU Kasus-Jacobi, Anne; Bereziat, Veronique; Perdereau, Dominique; Girard,
Jean; Burnol, Anne-Francoise [Reprint author]
CS Endocrinologie Metabolisme et Developpement, CNRS, UPR 1524, 9 Rue Jules
Hetzel, 92190, Meudon, France

SO Oncogene, (April 13, 2000) Vol. 19, No. 16, pp. 2052-2059. print.
CODEN: ONCNES. ISSN: 0950-9232.
DT Article
LA English
ED Entered STN: 31 May 2000
Last Updated on STN: 5 Jan 2002

L2 ANSWER 71 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 37
AN 2000:334281 BIOSIS
DN PREV200000334281
TI Grb10 proteins in insulin-like growth factor and insulin receptor
signaling (Review).
AU Morrione, Andrea [Reprint author]
CS Kimmel Cancer Center, Thomas Jefferson University, 233 South 10th Street,
606 Bluemle Life Sciences Building, Philadelphia, PA, 19107-5541, USA
SO International Journal of Molecular Medicine, (Feb., 2000) Vol. 5, No. 2,
pp. 151-154. print.
ISSN: 1107-3756.
DT Article
General Review; (Literature Review)
LA English
ED Entered STN: 10 Aug 2000
Last Updated on STN: 7 Jan 2002

L2 ANSWER 72 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:223032 CAPLUS
DN 130:247888
TI Potential effector protein for the Grb7 family of signaling proteins
IN Daly, Roger John; Sutherland, Robert Lyndsay
PA Garvan Institute of Medical Research, Australia
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9915647	A1	19990401	WO 1998-AU795	19980923
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2303760	AA	19990401	CA 1998-2303760	19980923
	AU 9892458	A1	19990412	AU 1998-92458	19980923
	AU 727305	B2	20001207		
	EP 1017802	A1	20000712	EP 1998-944896	19980923
	R: CH, DE, FR, GB, IT, LI, SE				
	JP 2001517435	T2	20011009	JP 2000-512939	19980923
	US 2002037582	A1	20020328	US 2000-509196	20000323
PRAI	AU 1997-9388	A	19970923		
	WO 1998-AU795	W	19980923		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 73 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 38
AN 2000:433637 BIOSIS
DN PREV200000433637
TI Identification of Tek/Tie2 binding partners. Binding to a multifunctional docking site mediates cell survival and migration.
AU Jones, Nina; Master, Zubin; Jones, Jamie; Bouchard, Denis; Gunji, Yuji; Sasaki, Hiroki; Daly, Roger; Alitalo, Kari; Dumont, Daniel J. [Reprint author]
CS Sunnybrook and Women's College Health sciences Centre, 2075 Bayview Ave., Research Bldg., S-227, Toronto, ON, M4N 3M5, Canada
SO Journal of Biological Chemistry, (Oct. 22, 1999) Vol. 274, No. 43, pp. 30896-30905. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
ED Entered STN: 11 oct 2000

Last Updated on STN: 10 Jan 2002

L2 ANSWER 74 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 39
AN 1999:288188 BIOSIS
DN PREV199900288188
TI Sequence analysis identifies a Ras-associating (RA)-like domain in the
N-termini of band 4.1/JEF domains and in the Grb7/10/14 adapter family.
AU Wojcik, Jerome; Girault, Jean-Antoine; Labesse, Gilles; Chomilier,
Jacques; Mornon, Jean-Paul; Callebaut, Isabelle [Reprint author]
CS Systemes moleculaires and Biologie structurale, LMCP, CNRS UMR 7590,
Universites Paris 6 et Paris 7, 4 place Jussieu, 75252, Paris Cedex 05,
France
SO Biochemical and Biophysical Research Communications, (May 27, 1999) Vol.
259, No. 1, pp. 113-120. print.
CODEN: BBRCA9. ISSN: 0006-291X.
DT Article
LA English
ED Entered STN: 5 Aug 1999
Last Updated on STN: 5 Aug 1999

L2 ANSWER 75 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 40
AN 1998:491148 BIOSIS
DN PREV199800491148
TI Identification of the rat adapter ***Grb14*** as an inhibitor of
insulin actions.
AU Kasus-Jacobi, Anne; Perdereau, Dominique; Auzan, Colette; Clauser, Eric;
Van Obberghen, Emmanuel; Mauvais-Jarvis, Franck; Girard, Jean; Burnol,
Anne-Francoise [Reprint author]
CS Endocrinologie Metabolisme et Developpement, CNRS, UPR 1524, 9 rue Jules
Hetzel, 92190 Meudon, France
SO Journal of Biological Chemistry, (Oct. 2, 1998) Vol. 273, No. 40, pp.
26026-26035. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
OS Genbank-AF076619
ED Entered STN: 18 Nov 1998
Last Updated on STN: 18 Nov 1998

L2 ANSWER 76 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 41
AN 1998:251777 BIOSIS
DN PREV199800251777
TI Interaction of the Grb10 adapter protein with the Raf1 and MEK1 kinases.
AU Nantel, Andre [Reprint author]; Mohammad-Ali, Khosro; Sherk, Jennifer;
Posner, Barry I.; Thomas, David Y.
CS Eukaryotic Genet. Group, Biotechnol. Res. Inst., Natl. Res. Council, 6100
Royalmount, Montreal, PQ H4P 2R2, Canada
SO Journal of Biological Chemistry, (April 24, 1998) Vol. 273, No. 17, pp.
10475-10484. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
ED Entered STN: 9 Jun 1998
Last Updated on STN: 12 Aug 1998

L2 ANSWER 77 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 42
AN 1998:225785 BIOSIS
DN PREV199800225785
TI Grb10 interacts differentially with the insulin receptor, insulin-like
growth factor I receptor, and epidermal growth factor receptor via the
Grb10 src homology 2 (SH2) domain and a second novel domain located
between the Pleckstrin homology and SH2 domains.
AU He, Weimin; Rose, David W.; Olefsky, Jerrold M.; Gustafson, Thomas A.
[Reprint author]
CS Metabolex Inc., 3876 Bay Cent. Pl., Hayward, CA 94545, USA
SO Journal of Biological Chemistry, (March 20, 1998) Vol. 273, No. 12, pp.
6860-6867. print.
CODEN: JBCHA3. ISSN: 0021-9258.
DT Article
LA English
ED Entered STN: 20 May 1998
Last Updated on STN: 20 May 1998

L2 ANSWER 78 OF 156 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
 AN 1998:907280 SCISEARCH
 GA The Genuine Article (R) Number: 137GQ
 TI A novel FGF signaling pathway u ***Grb14*** binds to FGF receptor 1.
 AU Reilly J F (Reprint); Mickey G; Maher P A
 CS SCRIPPS RES INST, DEPT CELL BIOL, LA JOLLA, CA 92037
 CYA USA
 SO MOLECULAR BIOLOGY OF THE CELL, (NOV 1998) Vol. 9, Supp. [s], pp.
 1365-1365.
 Publisher: AMER SOC CELL BIOLOGY, PUBL OFFICE, 9650 ROCKVILLE PIKE,
 BETHESDA, MD 20814.
 ISSN: 1059-1524.
 DT Conference; Journal
 FS LIFE
 LA English
 REC Reference Count: 0

L2 ANSWER 79 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1998:443196 BIOSIS
 DN PREV199800443196
 TI The Grb7 family of signalling proteins.
 AU Daly, Roger J. [Reprint author]
 CS Cancer Res. Program, Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,
 NSW 2010, Australia
 SO Cellular signalling, (Oct., 1998) Vol. 10, No. 9, pp. 613-618. print.
 CODEN: CESIEY. ISSN: 0898-6568.
 DT Article
 General Review; (Literature Review)
 LA English
 ED Entered STN: 21 Oct 1998
 Last Updated on STN: 21 Oct 1998

L2 ANSWER 80 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 AN 1999:16001 BIOSIS
 DN PREV199900016001
 TI A novel FGF signaling pathway u ***GRB14*** binds to FGF receptor 1.
 AU Reilly, John F.; Mickey, Gregory; Maher, Pamela A.
 CS Dep. Cell Biol., Scripps Res. Inst., La Jolla, CA 92037, USA
 SO Molecular Biology of the Cell, (Nov., 1998) Vol. 9, No. SUPPL., pp. 236A.
 print.
 Meeting Info.: 38th Annual Meeting of the American Society for Cell
 Biology. San Francisco, California, USA. December 12-16, 1998. American
 Society for Cell Biology.
 CODEN: MBCEEV. ISSN: 1059-1524.
 DT Conference; (Meeting)
 Conference; Abstract; (Meeting Abstract)
 LA English
 ED Entered STN: 20 Jan 1999
 Last Updated on STN: 20 Jan 1999

L2 ANSWER 81 OF 156 DISSABS COPYRIGHT (C) 2004 ProQuest Information and
 Learning Company; All Rights Reserved on STN
 AN 97:70470 DISSABS Order Number: AAR0598267 (not available for sale by
 UMI)
 TI ERBB RECEPTOR SIGNALLING IN HUMAN BREAST CANCER (TYROSINE KINASES)
 AU JAMES, PETER WARWICK [PH.D.]
 CS UNIVERSITY OF NEW SOUTH WALES (AUSTRALIA) (0423)
 SO Dissertation Abstracts International, (1997) Vol. 58, No. 6B, p. 2970.
 Order No.: AAR0598267 (not available for sale by UMI).
 DT Dissertation
 FS DAI
 LA English
 ED Entered STN: 19971104
 Last Updated on STN: 19971104

L2 ANSWER 82 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 43
 AN 1998:28109 BIOSIS
 DN PREV199800028109
 TI Cloning, chromosome localization, expression, and characterization of an
 Src homology 2 and pleckstrin homology domain-containing insulin receptor
 binding protein hGrb10gamma.
 AU Dong, Lily Q.; Du, Hongyan; Porter, Sarah G.; Kolakowski, Lee F., Jr.;
 Lee, Adrian V.; Mandarino, J.; Fan, Jianbing; Yee, Douglas; Liu, Feng
 [Reprint author]

CS Dep. Pharmacol., Univ. Texas Health Sci. Cent., 7703 Floyd Curl Dr., San
 Antonio, TX 78284-7764, USA
 SO Journal of Biological Chemistry, (Nov. 14, 1997) Vol. 272, No. 46, pp.
 29104-29112. print.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 OS Genbank-AF001534
 ED Entered STN: 14 Jan 1998
 Last Updated on STN: 14 Jan 1998

L2 ANSWER 83 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 44
 AN 1997:221295 BIOSIS
 DN PREV199799513011
 TI Structural determinants of the interaction between the erbB2 receptor and
 the Src homology 2 domain of Grb7.
 AU Janes, Peter W.; Lackmann, Martin; Church, W. Bret; Sanderson, Georgina
 M.; Sutherland, Robert L.; Daly, Roger J. [Reprint author]
 CS Cancer Res. Program, Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,
 NSW 2010, Australia
 SO Journal of Biological Chemistry, (1997) Vol. 272, No. 13, pp. 8490-8497.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 ED Entered STN: 22 May 1997
 Last Updated on STN: 22 May 1997

L2 ANSWER 84 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 45
 AN 1997:110178 BIOSIS
 DN PREV199799409381
 TI Human GRB-IR-beta/GRB10: splice variants of an insulin and growth factor
 receptor-binding protein with PH and SH2 domains.
 AU Frantz, J. Daniel; Giorgetti-Peraldi, Sophie; Ottinger, Elizabeth A.;
 Shoelson, Steven E. [Reprint author]
 CS Joslin Diabetes Cent., One Joslin Place, Boston, MA 02215, USA
 SO Journal of Biological Chemistry, (1997) Vol. 272, No. 5, pp. 2659-2667.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 ED Entered STN: 10 Mar 1997
 Last Updated on STN: 10 Mar 1997

L2 ANSWER 85 OF 156 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 46
 AN 1997:26254 CAPLUS
 DN 126:43162
 TI GDU: a new target for the erbB family of protein tyrosine kinases and a
 cDNA encoding it
 IN Daly, Roger John; Sutherland, Robert Lyndsay
 PA Garvan Institute of Medical Research, Australia; Daly, Roger John;
 Sutherland, Robert Lyndsay
 SO PCT Int. Appl., 15 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9634951	A1	19961107	WO 1996-AU258	19960502
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
CA 2220016	AA	19961107	CA 1996-2220016	19960502
AU 9654904	A1	19961121	AU 1996-54904	19960502
AU 701733	B2	19990204		
EP 840786	A1	19980513	EP 1996-911844	19960502
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11505415	T2	19990521	JP 1996-532859	19960502
US 2002086328	A1	20020704	US 1998-945771	19980422
US 6465623	B2	20021015		
US 2003044834	A1	20030306	US 2002-242332	20020911

	US 2003129639	A1	20030710	US 2002-323001	20021218
PRAI	AU 1995-2742	A	19950502		
	WO 1996-AU258	W	19960502		
	US 1998-945771	A3	19980422		
	US 2002-242332	A3	20020911		

L2 ANSWER 86 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 47
 AN 1996:484539 BIOSIS
 DN PREV199699199795
 TI Cloning and characterization of ***GRB14*** , a novel member of the
 GRB7 gene family.
 AU Daly, Roger J. [Reprint author]; Sanderson, Georgina M.; Janes, Peter W.;
 Sutherland, Robert L.
 CS Cancer Biol. Div., Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,
 NSW 2010, Australia
 SO Journal of Biological Chemistry, (1996) Vol. 271, No. 21, pp. 12502-12510.
 CODEN: JBCHA3. ISSN: 0021-9258.
 DT Article
 LA English
 OS EMBL-L76687; Genbank-L76687
 ED Entered STN: 24 Oct 1996
 Last Updated on STN: 10 Dec 1996

L2 ANSWER 87 OF 156 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
 DUPLICATE 48
 AN 1996:438181 BIOSIS
 DN PREV199699151787
 TI Assignment of the human ***GRB14*** gene to chromosome 2q22-q24 by
 fluorescence in situ hybridization.
 AU Baker, Elizabeth; Sutherland, Grant R.; Sutherland, Robert L.; Daly, Roger
 J. [Reprint author]
 CS Cancer Biol. Div., Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney,
 NSW 2010, Australia
 SO Genomics, (1996) Vol. 36, No. 1, pp. 218-220.
 CODEN: GNMCEP. ISSN: 0888-7543.
 DT Article
 LA English
 OS EMBL-L76687; Genbank-L76687
 ED Entered STN: 26 Sep 1996
 Last Updated on STN: 5 Nov 1996

L2 ANSWER 88 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH68285 protein DGENE
 TI Identification and selection of specific interaction agents by phage
 display, comprises using a carrier with a polymer-free surface to which
 affinity ligands are bound.
 IN Hill O; Otteleben H
 PA (GRAF-N) GRAFFINITY PHARM AG.
 PI WO 2003102591 A2 20031211 59p
 AI WO 2002-EP13395 20021127
 PRAI DE 2001-1058242 20011128
 DT Patent
 LA German
 OS 2004-043197 [04]
 CR N-PSDB: ADH68286
 DESC Human ***GRB14*** protein.

L2 ANSWER 89 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN AAW07871 Protein DGENE
 TI A new signalling protein designated GDU related to erbB receptor targets
 - also DNA encoding it, probes, and monoclonal antibodies for detection
 and treatment of breast and prostate cancer
 IN Daly R J; Sutherland R L
 PA (GARV-N) GARVAN INST MEDICAL RES.
 PI WO 9634951 A1 19961107 17p
 AI WO 1996-AU258 19960502
 PRAI AU 1995-2742 19950502
 DT Patent
 LA English
 OS 1996-506156 [50]
 CR N-PSDB: AAT44581
 DESC GDU (or ***Grb14***), a signalling protein.

L2 ANSWER 90 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
 AN ADH68286 cDNA DGENE

TI Identification and selection of specific interaction agents by phage display, comprises using a carrier with a polymer-free surface to which affinity ligands are bound.
IN Hill O; Ottleben H
PA (GRAF-N) GRAFFINITY PHARM AG.
PI WO 2003102591 A2 20031211 59p
AI WO 2002-EP13395 20021127
PRAI DE 2001-1058242 20011128
DT Patent
LA German
OS 2004-043197 [04]
CR P-PSDB: ADH68285
DESC Human ***GRB14*** cDNA.

L2 ANSWER 91 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAX25366 cDNA DGENE
TI New candidate effector for the Grb7 family of signaling proteins, and specific antibody, useful for detection and treatment of cancer
IN Daly R J; Sutherland R L
PA (GARV-N) GARVAN INST MEDICAL RES.
PI WO 9915647 A1 19990401 24p
AI WO 1998-AU795 19980923
PRAI AU 1997-9388 19970923
DT Patent
LA English
OS 1999-254707 [21]
CR P-PSDB: AAY05734
DESC Human Grb7 effector 2.2412 cDNA.

L2 ANSWER 92 OF 156 DGENE COPYRIGHT 2004 THOMSON DERWENT on STN
AN AAT44581 DNA DGENE
TI A new signalling protein designated GDU related to erbB receptor targets - also DNA encoding it, probes, and monoclonal antibodies for detection and treatment of breast and prostate cancer
IN Daly R J; Sutherland R L
PA (GARV-N) GARVAN INST MEDICAL RES.
PI WO 9634951 A1 19961107 17p
AI WO 1996-AU258 19960502
PRAI AU 1995-2742 19950502
DT Patent
LA English
OS 1996-506156 [50]
CR P-PSDB: AAW07871
DESC GDU (or ***Grb14***), a signalling protein.

L2 ANSWER 93 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419444 GenBank (R)
GenBank ACC. NO. (GBN): AY419444
GenBank VERSION (VER): AY419444.1 GI:39775401
CAS REGISTRY NO. (RN): 629064-36-4
SEQUENCE LENGTH (SQL): 1361
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Genome Survey Sequence
DATE (DATE): 17 Dec 2003
DEFINITION (DEF): Mus musculus ***GRB14*** gene, VIRTUAL TRANSCRIPT, partial sequence, genomic survey sequence.
KEYWORDS (ST): GSS
SOURCE: Mus musculus (house mouse)
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

COMMENT:

These sequences were made by sequencing genomic exons and ordering them based on alignment.

REFERENCE: 1 (bases 1 to 1361)
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.; Kejarawal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.; Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.; White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse orthologous gene trios
JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)
OTHER SOURCE (OS): CA 140:140421
REFERENCE: 2 (bases 1 to 1361)

AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;
 White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
 TITLE (TI): Direct Submission
 JOURNAL (SO): Submitted (16-NOV-2003) Celera Genomics, 45 West Gude
 Drive, Rockville, MD 20850, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1361	/organism="Mus musculus" /mol-type="genomic DNA" /db-xref="taxon:10090"
gene	<1..>1361	/gene="GRB14" /locus-tag="HCM6892"

SEQUENCE (SEQ):

```

1 atgagtcctga gtgcaagaag agtcaccctg cctgcgataa caccaatagt tctacagaag
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaagaaccgt agaggaccac
241 gagctgccaa ctgaagtgtg gtctcactgg ggagtgggaag aagacaataa gctgtatctt
301 agaaagaatt atgccaaata tgaatttttt aagaacccaa tgnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngtg
421 tttttaagct ccagcacgta tcctgaaatc catggcttct tacatgcaaa ggaacagggga
481 aagaagtcctt ggaaaaaagc ttactttttt ctcagaagat ctgggttata tttttctact
541 aaaggcacat ccaaggaacc acggcatttg cagcttttca gtgaattcag cactagtcac
601 gtttatatgt cactggcagg aaaaaaaaaa cacggagcgc caactcccta tggattctgc
661 ttaaacctaa caaagcagga gggcccgagg acctgaaaat gctctgtgca gaagaagagc
721 agagcaggac gtgctgggtg accgccatcc gactgctgaa gnnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnagaagcgt atcagagaat tcctagtag caatggactt ctcaggtgag aagagcagag
901 tcatagacaa cccactgaa gcgctttcgg ttgctgttga ggaaggcctc gcgtggagga
961 aaaaaggctg tttacgcctg gggaatcacg gaagcccag tgccccctcc cagagctctg
1021 ctgtgaacat ggctctccat cgggtcccaac catggtttca ccacagaatt tccagagatg
1081 aggctcagcg gctgatcatt cggcaggggc ctgtggatgg agttttcttg gtacgggata
1141 gtcagagtaa ccccagaact tttgtactgt caatgagtca tggacaaaag ataaaacact
1201 atcaaattat acccgtagaa gatgatgttg agctgttcca tactctggat gatggccata
1261 cgaagttcac agacctcatc cagctggttg agttctacca gctcaacagg ggggtccttc
1321 cttgcaagct gaagcattac tgtgctagga tggctgttta g

```

L2 ANSWER 94 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419443 GenBank (R)
 GenBank ACC. NO. (GBN): AY419443
 GenBank VERSION (VER): AY419443.1 GI:39775400
 CAS REGISTRY NO. (RN): 629064-35-3
 SEQUENCE LENGTH (SQL): 1362
 MOLECULE TYPE (CI): DNA; linear
 DIVISION CODE (CI): Genome Survey Sequence
 DATE (DATE): 17 Dec 2003
 DEFINITION (DEF): Pan troglodytes ***GRB14*** gene, VIRTUAL
 TRANSCRIPT, partial sequence, genomic survey sequence.
 KEYWORDS (ST): GSS
 SOURCE: Pan troglodytes (chimpanzee)
 ORGANISM (ORGN): Pan troglodytes
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Pan

COMMENT:

These sequences were made by sequencing genomic exons and ordering
 them based on alignment.

REFERENCE: 1 (bases 1 to 1362)
 AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;
 White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
 TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse
 orthologous gene trios
 JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)
 OTHER SOURCE (OS): CA 140:140421
 REFERENCE: 2 (bases 1 to 1362)
 AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;
 Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;
 Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;

TITLE (TI): White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
JOURNAL (SO): Direct Submission
Submitted (16-NOV-2003) Celera Genomics, 45 West Gude
Drive, Rockville, MD 20850, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1362	/organism="Pan troglodytes" /mol-type="genomic DNA" /db-xref="taxon:9598"
gene	<1..>1362	/gene="GRB14" /locus-tag="HCM6892"

SEQUENCE (SEQ):

```
1 atgagtttga gtgcaagaag agtcactctg cctgcaataa cgccaataat tctacagaaa
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaat agaagaccac
241 gaactgggtga ttgaagtgtc atccaactgg gggatagaag aagaaaacaa actannnnnn
301 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnatg
421 tttctgagtt caagcacata tcctgaaatt catggtttct tacatgcgaa agaacaggga
481 aagaagtctt ggaaaaaaat ttactttttt ctaagaagat ctggtttata tttttctact
541 aaaggaacat caaagnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
601 atttatgtgt nnctggcagg caaaaaaaa catggagcac cgactannnn nnnnnnnnnn
661 nnnnnnccta acaaagcggg agggcccccga gacctgaaaa tgctctgtgc agaagaagag
721 cagagtagga cgtgctgggt gaccgcgatt agattgctta agnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnnagaagta tatcagagaa ttccctggta gcaatggant tctcaggcca gaaaagcaga
901 gttatagaaa atccnnntga agccctttca gttgcnnntg aagaaggact cgcttgaggg
961 nnnnnnnnnn nnttacgnnt gggcactcac ggtagcccca ctgcctcttc acagagctct
1021 gccacaaaca tggctatcca ccggtcccag ccatggtttc accacaaaat ttctagagat
1081 gaggctcagc gattgattat tcagcaagga cttgtggatg gnnttttctt ggtacgggat
1141 agtcagagta accccaaaac tttcgtactg tcaatgagtc atggacaaaa aataaagcac
1201 tttcaaatta taccagtaga agatgacggg gaaatgttcc acacactgga tgatggccac
1261 acaagattta cagatctaata acagctgggt gagttctatc aactcaataa gggcgttctt
1321 ccttgcaagt tgaaacatta ttgtgctagg attgctctct ag
```

L2 ANSWER 95 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AY419442 GenBank (R)
GenBank ACC. NO. (GBN): AY419442
GenBank VERSION (VER): AY419442.1 GI:39775399
CAS REGISTRY NO. (RN): 629064-34-2
SEQUENCE LENGTH (SQL): 1362
MOLECULE TYPE (CI): DNA; linear
DIVISION CODE (CI): Genome Survey Sequence
DATE (DATE): 17 Dec 2003
DEFINITION (DEF): Homo sapiens ***GRB14*** gene, VIRTUAL TRANSCRIPT,
partial sequence, genomic survey sequence.
KEYWORDS (ST): GSS
SOURCE: Homo sapiens (human)
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

COMMENT:

These sequences were made by sequencing genomic exons and ordering
them based on alignment.

REFERENCE: 1 (bases 1 to 1362)
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;
Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;
Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;
White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
TITLE (TI): Inferring nonneutral evolution from human-chimp-mouse
orthologous gene trios
JOURNAL (SO): Science, 302 (5652), 1960-1963 (2003)
OTHER SOURCE (OS): CA 140:140421
REFERENCE: 2 (bases 1 to 1362)
AUTHOR (AU): Clark,A.G.; Glanowski,S.; Nielson,R.; Thomas,P.;
Kejariwal,A.; Todd,M.A.; Tanenbaum,D.M.; Civello,D.R.;
Lu,F.; Murphy,B.; Ferriera,S.; Wang,G.; Zheng,X.H.;
White,T.J.; Sninsky,J.J.; Adams,M.D.; Cargill,M.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (16-NOV-2003) Celera Genomics, 45 West Gude

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1362	/organism="Homo sapiens" /mol-type="genomic DNA" /db-xref="taxon:9606"
gene	<1..>1362	/gene="GRB14" /locus-tag="HCM6892"

SEQUENCE (SEQ):

```

1 atgagtttga gtgcaagaag agtcactctg cctgcaataa cgccaataat tctacagaaa
61 aggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aaagaacaat agaagaccac
241 gaactgggtga ttgaagtgtc atccaactgg gggatagaag aagaaaacaa actatacttt
301 agaaaaaatt atgccaaata tgagttcttt aaaaacccaa tgnnnnnnnnn nnnnnnnnnn
361 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnatg
421 ttcttgagtt caagcacata tcctgaaatt catggtttct tacatgcgaa agaacaggga
481 aagaagtctt ggaaaaaaat ttactttttt ctaagaagat ctggtttata tttttctact
541 aaaggaacat caaagnaacc gcggcatttg cagtttttca gcgaatttgg caatagtgtat
601 atttatgtgt cactggcagg caaaaaaaa catggagcac cgactaacta tggattctgc
661 tttaagccta acaaagcggg agggccccga gacctgaaaa tgctctgtgc agaagaagag
721 cagagtagga cgtgctgggt gaccgcgatt agattgctta agnnnnnnnnn nnnnnnnnnn
781 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
841 nnnagaagta tatcagagaa ttccctggta gcaatggact tctcaggcca gaaaagcaga
901 gttatagaaa atcccactga agccctttca gttgcggttg aagaaggact cgcttggagg
961 aaaaaaggat gtttacgcct gggcactcac ggtagcccca ctgcctcttc acagagctct
1021 gccacaaaca tggctatcca ccggtcccag ccatggtttc accacaaaat ttctagagat
1081 gaggtctcagc gattgattat tcagcaagga cttgtggatg gagttttctt ggtacgggat
1141 agtcagagta accccaaaac ttctgtactg tcaatgagtc atggacaaaa aataaagcac
1201 tttcaaatta taccagtaga agatgacggt gaaatgttcc acacactgga tgatggccac
1261 acaagattta cagatctaata acagctgggt gagttctatc aactcaataa gggcggttctt
1321 ccttgcaagt tgaacatta ttgtgctagg attgctctct ag

```

L2 ANSWER 96 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BC053559 GenBank (R)
 GenBank ACC. NO. (GBN): BC053559
 GenBank VERSION (VER): BC053559.1 GI:31657223
 CAS REGISTRY NO. (RN): 535081-55-1
 SEQUENCE LENGTH (SQL): 1872
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Primates
 DATE (DATE): 30 Jun 2004
 DEFINITION (DEF): Homo sapiens growth factor receptor-bound protein 14,
 mRNA (cDNA clone MGC:61485 IMAGE:6162863), complete
 cds.
 KEYWORDS (ST): MGC
 SOURCE: Homo sapiens (human)
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

COMMENT:

Contact: MGC help desk
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC/DCTD/DTP
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: National Institutes of Health Intramural
 Sequencing Center (NISC),
 Gaithersburg, Maryland;
 Web site: <http://www.nisc.nih.gov/>
 Contact: nisc_mgc@nhgri.nih.gov
 Akhter, N., Ayele, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
 Blakesley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooks, S.,
 Dietrich, N.L., Granite, S., Guan, X., Gupta, J., Haghighi, P.,
 Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Laric, P., Legaspi, R.,
 Maduro, Q.L., Masiello, C., Maskeri, B., Mastrian, S.D., McCloskey, J.C.,
 McDowell, J., Pearson, R., Stantripop, S., Thomas, P.J., Touchman, J.W.,
 Tsurgeon, C., Vogt, J.L., Walker, M.A., Wetherby, K.D., Wiggins, L.,
 Young, A., Zhang, L.-H. and Green, E.D.
 Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAK Plate: 115 Row: m Column: 17

This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 4758477.

REFERENCE: 1 (bases 1 to 1872)
AUTHOR (AU): Strausberg,R.L.; Feingold,E.A.; Grouse,L.H.; Derge,J.G.; Klausner,R.D.; Collins,F.S.; Wagner,L.; Shenmen,C.M.; Schuler,G.D.; Altschul,S.F.; Zeeberg,B.; Buetow,K.H.; Schaefer,C.F.; Bhat,N.K.; Hopkins,R.F.; Jordan,H.; Moore,T.; Max,S.I.; Wang,J.; Hsieh,F.; Diatchenko,L.; Marusina,K.; Farmer,A.A.; Rubin,G.M.; Hong,L.; Stapleton,M.; Soares,M.B.; Bonaldo,M.F.; Casavant,T.L.; Scheetz,T.E.; Brownstein,M.J.; Usdin,T.B.; Toshiyuki,S.; Carninci,P.; Prange,C.; Raha,S.S.; Loquellano,N.A.; Peters,G.J.; Abramson,R.D.; Mullahy,S.J.; Bosak,S.A.; McEwan,P.J.; McKernan,K.J.; Malek,J.A.; Gunaratne,P.H.; Richards,S.; Worley,K.C.; Hale,S.; Garcia,A.M.; Gay,L.J.; Hulyk,S.W.; Villalon,D.K.; Muzny,D.M.; Sodergren,E.J.; Lu,X.; Gibbs,R.A.; Fahey,J.; Helton,E.; Kettelman,M.; Madan,A.; Rodrigues,S.; Sanchez,A.; Whiting,M.; Madan,A.; Young,A.C.; Shevchenko,Y.; Bouffard,G.G.; Blakesley,R.W.; Touchman,J.W.; Green,E.D.; Dickson,M.C.; Rodriguez,A.C.; Grimwood,J.; Schmutz,J.; Myers,R.M.; Butterfield,Y.S.; Krzywinski,M.I.; Skalska,U.; Smailus,D.E.; Schnerch,A.; Schein,J.E.; Jones,S.J.; Marra,M.A.
TITLE (TI): Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences
JOURNAL (SO): Proc. Natl. Acad. Sci. U.S.A., 99 (26), 16899-16903 (2002)
OTHER SOURCE (OS): CA 138:131969
REFERENCE: 2 (bases 1 to 1872)
AUTHOR (AU): Strausberg,R.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (09-JUN-2003) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1872	/organism="Homo sapiens" /mol-type="mRNA" /db-xref="taxon:9606" /clone="MGC:61485 IMAGE:6162863" /tissue-type="Skin, melanotic melanoma." /clone-lib="NIH-MGC-72" /lab-host="DH10B"
gene	1..1872	/note="Vector: pCMV-SPORT6" /gene="GRB14" /db-xref="LocusID:2888" /db-xref="MIM:601524"
CDS	12..1634	/gene="GRB14" /codon-start=1 /product="growth factor receptor-bound protein 14" /protein-id="AAH53559.1" /db-xref="GI:31657224" /db-xref="LocusID:2888" /db-xref="MIM:601524" /translation="MTTSLQDQGSAAASRAAARDS PLAAQVCGAAQGRGDAHDLAPAPW LHARALLPLPDGTRGCAADRRKKKDLDPPEMPSI PNPFPELCCSPFTSVLSADLFPKA NSRKKQVIKVYSEDETSRALDVPDITARDVCQL LILKNHYIDHHSWTLFEHLPHIGV ERTIEDHELVIEVLSNWGIEEENKLYFRKNYAKY EFFKNPMYFFPEHMFVFSATETNGE ISPTQILQMFLSSSTYPEIHGFLHAKEQGKSKW KIYFFLRRSGLYFSTKGTSKEPRH LQFFSEFGNSDIYVSLAGKKKHGAPTNYGFCFKP NKAGGPRDLKMLCAEEEEQSRTCWV TAIRLLKYGMQLYQNYMHPYQGRSGCSSQSISPM RSISENSLVAMDFSGQKSRVIENP

TEALSVAVEEGLAWRKKGCLRLGTHGSPTASSQS
SATNMAIHRSPWFHHKISRDEAQ
RLIIQQGLVDGVFLVRDSQSNPKTFVLSMSHGQK
IKHFQIIPVEDDGEMFHTLDDGHT
RFTDLIQLVEFYQLNKGVLPCCLKHYCARIAL"

SEQUENCE (SEQ):

```
1  ggccggcgac aatgaccact tccctgcaag atggggcagag cgccgcgagc agggcggtg
61  cccgggattc gccgctggcc gccaggtgt gtggcgctgc ccaggggagg ggcgacgcc
121 acgacctggc gccggccccc tggctgcacg cgcgagcgct cctgccccct ccggacggga
181 cccgcggctg tgctgcagac aggagaaaaa agaaagatct tgatgttccg gaaatgccat
241 ctattccaaa cctttttcct gagctatgct gttctccatt tacatctgtt ttgtcagcag
301 acctatttcc caaagcaaat tcaagaaaaa aacaggatgat taaagtatac agtgaagatg
361 aaaccagcag ggcttttagat gtaccagtg acataacggc tcgagatgtt tgtcagctgt
421 tgatcctgaa gaatcattac attgatgacc acagctggac cttttttgag cacctgcctc
481 acataggtgt agaaagaaca atagaagacc acgaactggt gattgaagtg ctatccaact
541 gggggataga agaagaaaac aaactatact ttagaaaaaa ttatgccaaa tatgagttct
601 ttaaaaaccc aatgtatttt tttccagagc atatggtatc ttttgcaact gaaaccaatg
661 gtgaaatata ccccacacag attttgcaga tgtttctgag ttcaagcaca tatcctgaaa
721 ttcattgttt cttacatgcg aaagaagagc gaaagaagtc ttggaaaaaa atttactttt
781 ttctaagaag atctggttta ttttttcta ctaaaggaac atcaaaggaa ccgcggcatt
841 tgcagttttt cagcgaattt ggcaatagtg atatttatgt gtcactggca ggcaaaaaaa
901 aacatggagc accgactaac tatggattct gctttaagcc taacaaagcg ggagggcccc
961 gagacctgaa aatgctctgt gcagaagaag agcagagtag gacgtgctgg gtgaccgcga
1021 ttatgttgcg taagtatggc atgcagctgt accagaatta tatgcatcca tatcaaggta
1081 gaagtggctg cagttcacag agcatatcac ctatgagaag tatatcacag aattccctgg
1141 tagcaatgga cttctcaggc cagaaaagca gagttataga aaatccctact gaagcccttt
1201 cagttgcggt tgaagaagga ctgccttgga ggaaaaaagg atgtttacgc ctgggcactc
1261 acggtagccc cactgcctct tcacagagct ctgccacaaa catggctatc caccggtccc
1321 agccatggtt tcaccacaaa atttctagag atgaggctca gcgattgatt attcagcaag
1381 gacttggtga tggagttttc ttggtacggg atagtcagag taaccccaaa actttcgtac
1441 tgtcaatgag tcatggacaa aaaataaagc actttcaaat tataccagta gaagatgacg
1501 gtgaaatggt ccacacactg gatgatggcc acacaagatt tacagatcta atacagctgg
1561 tggagttcta tcaactcaat aagggcgttc ttccttgcaa gttgaaacat tattgtgcta
1621 ggattgctct ctagacaagc cagaagtgac ttattaaact attgaaggaa aaggactcaa
1681 gaaaaataat aaaagaccat aaataagggc gaaaacatta ccatgtgaaa agaattgatt
1741 tcacctgcaa gttacaaaaa aatagtttgt gcattgcaaa taagcaaaga cttggattga
1801 ctttacattc atcatttaaa attcattagt taaaattaaa ccttaggaaa aaaatgaaaa
1861 aaaaaaaaaa aa
```

L2 ANSWER 97 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AK074599 GenBank (R)
GenBank ACC. NO. (GBN): AK074599
GenBank VERSION (VER): AK074599.1 GI:22760142
CAS REGISTRY NO. (RN): 453084-12-3
SEQUENCE LENGTH (SQL): 1513
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Primates
DATE (DATE): 3 Sep 2002
DEFINITION (DEF): Homo sapiens cDNA FLJ90118 fis, clone HEMBA1006916,
highly similar to Homo sapiens ***Grb14*** mRNA.
SOURCE: Homo sapiens embryo, 10 weeks whole embryo, mainly head
cDNA to mRNA, clone_lib:HEMBA1 clone:HEMBA1006916.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 432 a 399 c 346 g 336 t
COMMENT:
NEDO human cDNA sequencing project supported by Ministry of
Economy, Trade and Industry of Japan; cDNA full insert sequencing:
Research Association for Biotechnology; cDNA library construction:
Institute of Medical Science, University of Tokyo, Laboratory of
Genome Structure, Human Genome Center; cDNA 5'- & 3'-end one pass
sequencing and clone selection: Helix Research Institute (supported
by Japan Key Technology Center etc.).
REFERENCE: 1
AUTHOR (AU): Isogai,T.; Ota,T.; Nishikawa,T.; Hayashi,K.; Otsuki,T.;
Sugiyama,T.; Suzuki,Y.; Nagai,K.; Sugano,S.; Ishii,S.;
Kawai-Hio,Y.; Saito,K.; Yamamoto,J.; Wakamatsu,A.;
Nakamura,Y.; Kojima,S.; Nagahari,K.; Masuho,Y.; Ono,T.;
Okano,K.; Yoshikawa,Y.; Aotsuka,S.; Sasaki,N.;
Hattori,A.; Okumura,K.; Iwayanagi,T.; Ninomiya,K.
TITLE (TI): NEDO human cDNA sequencing project
JOURNAL (SO): Unpublished

REFERENCE: 2 (bases 1 to 1513)
 AUTHOR (AU): Isogai,T.; Otsuki,T.
 TITLE (TI): Direct Submission
 JOURNAL (SO): Submitted (25-MAR-2002) Takao Isogai, Helix Research
 Institute, Genomics Laboratory; 1532-3 Yana, Kisarazu,
 Chiba 292-0812, Japan (E-mail:genomics@hri.co.jp,
 Tel:81-438-52-3975, Fax:81-438-52-3986)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1513	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="HEMBA1006916" /tissue-type="whole embryo, mainly head" /clone-lib="HEMBA1" /dev-stage="embryo, 10 weeks" /note="cloning vector: pME18SFL3"

SEQUENCE (SEQ):

```

1  tggctgcagt  tcacagagca  tatcacctat  gagaagtata  tcagagaatt  ccctggtagc
61  aatggacttc  tcaggccaga  aaagcagagt  tatagaaaat  cccactgaag  ccctttcagt
121  tgcggttgaa  gaaggactcg  cttggaggaa  aaaaggatgt  ttacgcctgg  gcactcacgg
181  tagccccact  gcctcttcac  agagctctgc  cacaaacatg  gctatccacc  ggtcccagcc
241  atggtttcac  cacaaaatth  cctccgcccc  ctccccctcc  ccgccgcctc  gcagatagct
301  cggccgcgcg  tctcagccgc  cggggccccg  agcgcaggcg  gcgaggccac  cacacctgca
361  gagcgctcgg  gctgcctagg  cggcacctcg  cctcccgcgg  cgcaaaccac  ttctccccac
421  gcgccgagtc  tcccatgacg  cccgagcccc  ccggccggcg  acaatgacca  cttccctgca
481  agatgggcag  agcgcgcgca  gcaggggcgg  tgcccgggat  tagccgctgg  ccgcccaggt
541  gtgtggcgct  gcccagggga  ggggcgacgc  ccacgacctg  gcgccggccc  cctggctgca
601  cgcgcgagcg  ctcttgcccc  ttccggacgg  gaccgcggcg  tgtgctgcag  acaggagaaa
661  aaagaaagat  cttgatgttc  cggaaatgcc  atctattcca  aacccttttc  ctgagctatg
721  ctgttctcca  attacatctg  tgtgtcagc  agacctattt  cccaaagcaa  attcaaggaa
781  aaaacagggt  attaaagtat  acagtgaaga  tgaaaccagc  agggctttag  atgtaccag
841  tgacataacg  gctcgagatg  tttgtcagct  gttgatcctg  aagaatcatt  acattgatga
901  ccacagctgg  accctttttg  agcacctgcc  tcacataggt  gtagaaagaa  caatagaaga
961  ccacgaactg  gtgattgaag  tgcattccaa  ctgggggata  gaagaagaaa  acaaactata
1021  ctttagaaaa  aattatgcca  aatatgagtt  ctttaaaaac  ccaatgtatt  tttttccaga
1081  gcatatggta  tcttttgcaa  ctgaaaccaa  tggtgaaata  tccccacac  agattttgca
1141  gatgtttctg  agttcaagca  catatcctga  aatgttccac  aactggatg  atggccacac
1201  aagatttaca  gatctaatac  agctggtgga  gttctatcaa  ctcaataagg  gcgttcttcc
1261  ttgcaagttg  aaacattatt  gtgctaggat  tgctctctag  acaagccaga  agtgacttat
1321  taaactattg  aagggaaaag  actcaagaaa  aataataaaa  gaccataaat  aagggcgaaa
1381  acattatcat  gtgaaaagaa  tgtatttcac  ctgcaagtta  caaaaaaata  gtttggtcat
1441  tacaataaag  caagaccttg  gattgacttt  acattcatca  tttaaaattc  attagttaaa
1501  attaaacctt  agg
  
```

L2 ANSWER 98 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BC021820 GenBank (R)
 GenBank ACC. NO. (GBN): BC021820
 GenBank VERSION (VER): BC021820.1 GI:18256069
 CAS REGISTRY NO. (RN): 387318-13-0
 SEQUENCE LENGTH (SQL): 870
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Rodents
 DATE (DATE): 16 Apr 2003
 DEFINITION (DEF): Mus musculus growth factor receptor bound protein 14,
 mRNA (cDNA clone IMAGE:3967891), partial cds.
 SOURCE: Mus musculus (house mouse)
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 277 a 183 c 209 g 201 t
 COMMENT:
 Contact: MGC help desk
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Gilbert Smith, Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Baylor College of Medicine Human Genome
 Sequencing Center
 Center code: BCM-HGSC
 Web site: http://www.hgsc.bcm.tmc.edu/cdna/

Contact: amg@bcm.tmc.edu

Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, H.,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found
through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Series: IRAK Plate: 40 Row: g Column: 24.

REFERENCE: 1 (bases 1 to 870)
AUTHOR (AU): Strausberg,R.L.; Feingold,E.A.; Grouse,L.H.;
Derge,J.G.; Klausner,R.D.; Collins,F.S.; Wagner,L.;
Shenmen,C.M.; Schuler,G.D.; Altschul,S.F.; Zeeberg,B.;
Buetow,K.H.; Schaefer,C.F.; Bhat,N.K.; Hopkins,R.F.;
Jordan,H.; Moore,T.; Max,S.I.; Wang,J.; Hsieh,F.;
Diatchenko,L.; Marusina,K.; Farmer,A.A.; Rubin,G.M.;
Hong,L.; Stapleton,M.; Soares,M.B.; Bonaldo,M.F.;
Casavant,T.L.; Scheetz,T.E.; Brownstein,M.J.;
Usdin,T.B.; Toshiyuki,S.; Carninci,P.; Prange,C.;
Raha,S.S.; Loquellano,N.A.; Peters,G.J.; Abramson,R.D.;
Mullahy,S.J.; Bosak,S.A.; McEwan,P.J.; McKernan,K.J.;
Malek,J.A.; Gunaratne,P.H.; Richards,S.; Worley,K.C.;
Hale,S.; Garcia,A.M.; Gay,L.J.; Hulyk,S.W.;
Villalon,D.K.; Muzny,D.M.; Sodergren,E.J.; Lu,X.;
Gibbs,R.A.; Fahey,J.; Helton,E.; Kettman,M.; Madan,A.;
Rodrigues,S.; Sanchez,A.; Whiting,M.; Madan,A.;
Young,A.C.; Shevchenko,Y.; Bouffard,G.G.;
Blakesley,R.W.; Touchman,J.W.; Green,E.D.;
Dickson,M.C.; Rodriguez,A.C.; Grimwood,J.; Schmutz,J.;
Myers,R.M.; Butterfield,Y.S.; Krzywinski,M.I.;
Skalska,U.; Smailus,D.E.; Schnerch,A.; Schein,J.E.;
Jones,S.J.; Marra,M.A.
TITLE (TI): Generation and initial analysis of more than 15,000
full-length human and mouse cDNA sequences
JOURNAL (SO): Proc. Natl. Acad. Sci. U.S.A., 99 (26), 16899-16903
(2002)
OTHER SOURCE (OS): CA 138:84318
REFERENCE: 2 (bases 1 to 870)
AUTHOR (AU): Strausberg,R.
TITLE (TI): Direct Submission
JOURNAL (SO): submitted (18-JAN-2002) National Institutes of Health,
Mammalian Gene Collection (MGC), Cancer Genomics
Office, National Cancer Institute, 31 Center Drive,
Room 11A03, Bethesda, MD 20892-2590, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..870	/organism="Mus musculus" /mol-type="mRNA" /strain="FVB/N" /db-xref="taxon:10090" /clone="IMAGE:3967891" /tissue-type="Mammary tumor. Metallothionien-TGF alpha model. 10 month old virgin mouse. Taken by biopsy." /clone-lib="NCI-CGAP-Mam1" /lab-host="DH10B" /note="Vector: pCMV-SPORT6"
gene	<1..870	/gene="Grb14" /db-xref="LocusID:50915" /db-xref="MGI:1355324"
CDS	<1..625	/gene="Grb14" /codon-start=2 /product="Grb14 protein" /protein-id="AAH21820.1" /db-xref="GI:18256070" /db-xref="LocusID:50915" /db-xref="MGI:1355324" /translation="VTAIRLLKDGMLYQNYMHP YQGRSACNSQSMSPMRVSSENSLV AMDFSGEKSRVIDNPTEALSVAVEEGLAWRKKGC LRLGNHGSPSAPSQSSAVNMALHR SQPWFHHRISRDEAQRLLIIRQGPVDGVFLVRDSQ SNPRTFVLMSHGQKIKHYIIPV EDDGELFHTLDDGHTKFTDLIQLVEFYQLNRGVL PCKLKHYCARMV"

SEQUENCE (SEQ):
1 ggtgaccgcc atccgactgc tgaaggatgg catgcagctg tatcagaatt atatgcatcc
61 ataccaaggt agaagcgcct gcaattctca gagcatgtca cccatgagaa gcgtatcaga
121 gaattcccta gtagcaatgg acttctcagg tgagaagagc agagtcatag acaacccac
181 tgaagcgctt tcggttgctg ttgaggaagg cctcgcgtgg aggaaaaaag gctgtttacg
241 cctggggaat cacggaagcc ccagtgcctc ctcccagagc tctgctgtga acatggctct
301 ccatacggtcc caaccatggt ttcaccacag aatttccaga gatgaggctc agcggctgat
361 cattcggcag gggcctgtgg atggagtttt cttggtacgg gatagtcaga gtaacccag
421 aacttttgta ctgtcaatga gtcatggaca aaagataaaa cactatcaaa ttatacccg
481 agaagatgat ggtgagctgt tccatactct ggatgatggc catacgaagt tcacagacct
541 catccagctg gtggagttct accagctcaa caggggggtc cttccttgca agctgaagca
601 ttactgtgct aggatggctg tttagccaaa ctgtgtgtca ctcgttacac tacagaagaa
661 gaaggatgca aaggagaatg attagagaga gagagagaga tcacaaggct gaaaacaaa
721 catggtgaaa agaagatttc acctgcgggt tacaaaaaaa aataggtcac acattgcaa
781 ttagtgaaaa cttggattcc tattacactc atgactttaa atttattagt taaaattaaa
841 ccttattaaa aaaataaaaa aaaaaaaaaa

L2 ANSWER 99 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF329696 GenBank (R)
GenBank ACC. NO. (GBN): AF329696
GenBank VERSION (VER): AF329696.1 GI:13161041
CAS REGISTRY NO. (RN): 325452-27-5
SEQUENCE LENGTH (SQL): 3815
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Primates
DATE (DATE): 14 May 2001
DEFINITION (DEF): Homo sapiens tankyrase 2 mRNA, complete cds.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 1120 a 788 c 924 g 983 t
REFERENCE: 1 (bases 1 to 3815)
AUTHOR (AU): Lyons,R.J.; Deane,R.; Lynch,D.K.; Ye,Z.S.;
Sanderson,G.M.; Eyre,H.J.; Sutherland,G.R.; Daly,R.J.
TITLE (TI): Identification of a novel human tankyrase through its
interaction with the adaptor protein ***Grb14***
JOURNAL (SO): J. Biol. Chem., 276 (20), 17172-17180 (2001)
OTHER SOURCE (OS): CA 135:118599
REFERENCE: 2 (bases 1 to 3815)
AUTHOR (AU): Lyons,R.J.; Deane,R.; Lynch,D.K.; Ye,Z.-S.J.;
Sanderson,G.M.; Eyre,H.J.; Sutherland,G.R.; Daly,R.J.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (17-DEC-2000) Cancer Research, Garvan
Institute of Medical Research, 384 Victoria St.,
Sydney, NSW 2010, Australia

FEATURES (FEAT):		
Feature Key	Location	Qualifier
=====+=====+=====		
source	1..3815	/organism="Homo sapiens" /db-xref="taxon:9606" /chromosome="10" /map="10q23.2"
CDS	140..3640	/codon-start=1 /product="tankyrase 2" /protein-id="AAK13463.1" /db-xref="GI:13161042" /translation="MSGRRRCAGGGAACASAAAEA VEPAARELFEACRNGDVERVKRLV TPEKVNSRDTAGRKSTPLHFAAGFGRKDVVEYLL QNGANVQARDDGGLIPLHNACSGF HAEVVNLLLRHGADPNARDNWNYPLEHAAIKGK IDVCIVLLQHGAEPTIRNTDGRTA LDLADPSAKAVLTGEYKKDELLESARSGNEEKMM ALLTPLNVNCHASDGRKSTPLHLA AGYNRVKIVQLLLQHGADVHAKDKGDLVPLHNAC SYGHYEVTLLVKHGACVNAMDLW QFTPLHEAASKNRVEVCSLLLSYGADPTLLNCHN KSAIDLAPTPQLKERLAYEFKGHS LLQAAREADVTRIKKHLSEMVNFKHPQTHETAL HCAAASPPYKRRKQICELLRLKGAN INEKTKEFLTPLHVASEKAHNDVVEVVVKHEAKV

NALDNLGQTSIHRAAYCGHLQTCR
 LLLSYGCDPNIIISLQGFALQMGNNVQQLLQEG
 ISLGNSEADRQLLEAAKAGDVETV
 KKLCTVQSVNCRDIEGRQSTPLHFAAGYNRVSVV
 EYLLQHAGADVHAKDKGGLVPLHNA
 CSYGHYEVAELLVKHGAVNVNADLWKFTPLHEAA
 AKGKYEICKLLQLQHGAADPTKKNRD
 GNTPLDLVKDGDTDIQLDLRGDAALLDAAKKGCL
 ARVKKLSSPDNVNCRDTQGRHSTP
 LHAAAGYNNLEVAEYLLQHGAADVNAQDKGGLIPL
 HNAASYGHVDVAALLIKYNACVNA
 TDKWAFTPLHEAAQKGRQTQLCALLLAHGADPTLK
 NQEGQTPDLVLSADDVSALLTAAM
 PPSALPSCYKPQVLNGVRSPGATADALSSGPSSP
 SLSAASSLDNLSGSFSELSSVVS
 SSGTEGASSLEKKEVPGVDFSITQFVRNLGLEHL
 MDIFEREQITLDVLVEMGHKELKE
 IGINAYGHRHKLKIGVERLISGQQGLNPYLTNT
 SSGSTILIDLSPDDKEFQSVVEEM
 QSTVREHRDGGHAGGIFNRYNLIKQKVCNKKLW
 ERYTHRRKEVSEENHNHANERMLF
 HGSPFVNAIIHKGFDERHAYIGGMFGAGIYFAEN
 SSKSNQYVYGIGGGTGCPVHKDRS
 CYICHRQLLFCRVTLGKSFLQFSAMKMAHSPPGH
 HSVTGRPSVNLALAEYVIYRGEQ
 AYPEYLITYQIMRPEGMVDG"

SEQUENCE (SEQ):

1	ggatccggtg	acagcagggga	gccaaagcggc	ccggggccctg	agcgcgtctt	ctccggggggg
61	cctcgccctc	ctgctcgcg	ggccgggggct	cctgctccgg	ttgctggcgc	tgttgctggc
121	tgtggcggcg	gccaggatca	tgtcgggtcg	ccgctgcgcc	ggcgggggag	cggcctgcgc
181	gagcgccgcg	gccgaggccg	tggagccggc	cgcccagag	ctgttcgagg	cgtgccgcaa
241	cggggacgtg	gaacgagtc	agaggctggt	gacgcctgag	aagggtgaaca	gccgcgacac
301	ggcgggcagg	aaatccaccc	cgtgcactt	cgccgcaggt	tttgggcgga	aagacgtagt
361	tgaatatttg	cttcagaatg	gtgcaaatgt	ccaagcacgt	gatgatgggg	gccttattcc
421	tcttcataat	gcatgctctt	ttgggtcatgc	tgaagtagtc	aatctccttt	tgcgacatgg
481	tgcagacccc	aatgctcgag	ataattggaa	ttatactcct	ctccatgaag	ctgcaattaa
541	aggaaagatt	gatgtttgca	ttgtgctggt	acagcatgga	gctgagccaa	ccatccgaaa
601	tacagatgga	aggacagcat	tggatttagc	agatccatct	gccaaagcag	tgcttactgg
661	tgaatataag	aaagatgaac	tcttagaaag	tgccaggagt	ggcaatgaag	aaaaaatgat
721	ggctctactc	acaccattaa	atgtcaactg	ccacgcaagt	gatggcagaa	agtcaactcc
781	attacatttg	gcagcaggat	ataacagagt	aaagattgta	cagctgttac	tgcaacatgg
841	agctgatgtc	catgctaaag	ataaagggtga	tctggtacca	ttacacaatg	cctgttctta
901	tggctattat	gaagtaactg	aacttttggt	caagcatggt	gcctgtgtaa	atgcaatgga
961	cttgtggcaa	ttcactcctc	ttcatgaggc	agcttctaag	aacagggttg	aagtatgttc
1021	tcttctctta	agttatggtg	cagacccaac	actgctcaat	tgtcacataa	aaagtgtcat
1081	agacttggct	cccacaccac	agttaaaaga	aagattagca	tatgaattta	aaggccactc
1141	gttgctgcaa	gctgcacgag	aagctgatgt	tactcgaatc	aaaaaacatc	tcttcttgga
1201	aatggtgaat	ttcaagcatc	ctcaaacaca	tgaacagca	ttgcattgtg	ctgctgcac
1261	tccataatccc	aaaagaaagc	aaatatgtga	actgttgcta	agaaaaggag	caaacatcaa
1321	tgaaaagact	aaagaattct	tgtactcctc	gcacgtggca	tctgagaaag	ctcataatga
1381	tgttgttgaa	gtagtgggtg	aacatgaagc	aaagggtta	gctctggata	atcttgggtca
1441	gacttctcta	cacagagctg	catattgtgg	tcattctaca	acctgccgcc	tactcctgag
1501	ctatgggtgt	gatcctaaca	ttatatccct	tcagggtctt	actgctttac	agatgggaaa
1561	tgaaaatgta	cagcaactcc	tccaagaggg	tatctcatta	ggtaattcag	aggcagacag
1621	acaattgctg	gaagctgcaa	aggctggaga	tgtcgaaact	gtaaaaaac	tgtgtactgt
1681	tcagagtgtc	aactgcagag	acattgcaag	gcgtcagctc	acaccacttc	attttgacgc
1741	tgggtataac	agagtgtccg	tgggtggaata	tctgtacacg	catggagctg	atgtgcatgc
1801	taaagataaaa	ggaggccttg	tacctttgca	caatgcatgt	tcttatggac	attatgaagt
1861	tgcagaactt	cttggttaa	atggagcagt	agttaatgta	gctgatttat	ggaaatttac
1921	acctttacat	gaagcagcag	caaaaggaaa	atatgaaatt	tgcaaacttc	tgtccagca
1981	tgggtgcagac	cctacaaaaa	aaaacaggga	tggaaatact	cctttggatc	ttgttaaaga
2041	tggagataca	gatattcaag	atctgtttag	gggagatgca	gcttttgtag	atgctgcca
2101	gaagggttgt	ttagccagag	tgaagaagtt	gtcttctcct	gataatgtaa	attgccgcga
2161	tacccaaggc	agacattcaa	cacctttaca	tttagcagct	ggttataata	atttagaagt
2221	tgcagagtat	ttgttacaa	acggagctga	tgtgaatgcc	caagacaaag	gaggacttat
2281	tcctttacat	aatgcagcat	cttacgggca	tgtagatgta	gcagctctac	taataaagta
2341	taatgcatgt	gtcaatgcca	cggacaaatg	ggctttcaca	cctttgcacg	aagcagccca
2401	aaagggacga	acacagcttt	gtgctttggt	gctagcccat	ggagctgacc	cgactcttaa
2461	aaatcagga	ggacaaacac	cttttagattt	agtttcagca	gatgatgtca	gcgctcttct
2521	gacagcagcc	atgcccccat	ctgctctgcc	ctcttggtac	aagcctcaag	tgtcfaatgg
2581	tgtgagaagc	ccaggagcca	ctgcagatgc	tctctcttca	ggtccatcta	gccccatcaag
2641	cctttctgca	gccagcagtc	ttgacaactt	atctgggagt	ttttcagaac	tgtcttcagt
2701	agttagttca	agtggaaacag	aggggtgcttc	cagtttgagg	aaaaaggagg	ttccaggagt
2761	agattttagc	ataactcaat	tcgtaaggaa	tcttggaact	gagcacctaa	tggataatatt
2821	tgagagagaa	cagatcactt	tggatgtatt	agttgagatg	gggcacaagg	agctgaagga

2881 gattggaatc aatgcttatg gacataggca caaactaatt aaaggagtcg agagacttat
 2941 ctccgggaaa caaggtctta acccatatct aactttgaac acctctggta gtggaacaat
 3001 tcttatagat ctgtctcctg atgataaaga gtttcagtct gtggaggaag agatgcaaag
 3061 tacagttcga gagcacagag atggagggtca tgcagggtgga atcttcaaca gatacaatat
 3121 tctcaagatt cagaagggtt gtaacaagaa actatgggaa agatacactc accggagaaa
 3181 agaagtttct gaagaaaacc acaaccatgc caatgaacga atgctatttc atgggtctcc
 3241 ttttgtgaat gcaattatcc acaaaggctt tgatgaaagg catgctgaca taggtggtat
 3301 gtttggagct ggcattttatt ttgctgaaaa ctcttccaaa agcaatcaat atgtatatgg
 3361 aattggagga ggtactgggt gtccagttca caaagacaga tcttggtaca ttgcccacag
 3421 gcagctgctc ttttgccggg taaccttggg aaagtcttct ctgcagttca gtgcaatgaa
 3481 aatggcacat tctcctccag gtcactcact agtactggt aggccagtg taaatggcct
 3541 agcattagct gaatatgtta ttacagagg agaacaggct tatcctgagt atttaattac
 3601 ttaccagatt atgaggcctg aagggtatgt cgatggataa atagttattt taagaaacta
 3661 attccactga acctaaaatc atcaaagcag cagtggcctc tacgttttac tcctttgctg
 3721 aaaaaaaatc atcttgccca caggcctgtg gcaaaaggat aaaaatgtga acgaagttaa
 3781 acattctgac ttgataaagc tttataatg tacag

L2 ANSWER 100 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB560608 GenBank (R)
 GenBank ACC. NO. (GBN): BB560608
 GenBank VERSION (VER): BB560608.1 GI:9646974
 CAS REGISTRY NO. (RN): 284994-84-9
 SEQUENCE LENGTH (SQL): 323
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 1 Aug 2000
 DEFINITION (DEF): BB560608 RIKEN full-length enriched, 10 days neonate
 olfactory brain Mus musculus cDNA clone E530113B02 3'
 similar to AF076619 Rattus norvegicus molecular adapter
 rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 92 a 89 c 53 g 89 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermotabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE:

1 (bases 1 to 323)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;

Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.;
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;
Hayashizaki,Y.

TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..323	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E530113B02" /clone-lib="RIKEN full-length enriched, 10 days neonate olfactory brain" /tissue-type="olfactory brain" /dev-stage="10 days neonate" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGACGCCGCAACTCGAGTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```
1 gctgttctcc actttttccc ccggtcgatt ttaccccctc tactgggggt tccttcccc
61 ctacctgcta ccctcacttt cccccgatgg ctgttcaccc ccactttctt tcactcgta
121 cactacagaa gaagaagcat ccaaaggagt atgataacag agagagagag agatcaccag
181 gctgaaaacc catcatggtg gaaaggagat ttaccttcg ggttaccaa acaaataggt
241 cacacattgc aaatttagtg aaacttggat tcctattaca ctcatgactt taaatttatt
301 agttaaatt aaacctttt aac
```

L2 ANSWER 101 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB560607 GenBank (R)
GenBank ACC. NO. (GBN): BB560607
GenBank VERSION (VER): BB560607.1 GI:9646973
CAS REGISTRY NO. (RN): 284994-83-8
SEQUENCE LENGTH (SQL): 313
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 1 Aug 2000
DEFINITION (DEF): BB560607 RIKEN full-length enriched, 10 days neonate
olfactory brain Mus musculus cDNA clone E530113B01 3'
similar to AF076619 Rattus norvegicus molecular adapter
rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE:
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 100 a 76 c 54 g 83 t
COMMENT:
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic

Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL:http://genome.gsc.riken.go.jp/
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki
 ,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki
 ,Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

REFERENCE: 1 (bases 1 to 313)
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;
 Arakawa,T.; Carninci,P. ; Endo,T.; Fukuda,S.;
 Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;
 Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;
 Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;
 Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;
 Kurihara,C.; Kusakabe,M.; Matsuyama,T. ; Miki,R.;
 Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y., Ono,T.y;
 Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;
 Shibata,Y.,; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;
 Sogabe,Y.; Sugahara,Y., Suzuki,H.,; Suzuki,H.;
 Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;
 Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;
 Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.;
 Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;
 Hayashizaki,Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):		
Feature Key	Location	Qualifier
source	1..313	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E530113B01" /clone-lib="RIKEN full-length enriched, 10 days neonate olfactory brain" /tissue-type="olfactory brain" /dev-stage="10 days neonate" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC

CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```
1 ccacctatat ccagttggtg gacttccacc agcttaacag gcggtccttc cttccacact
61 gaaccacact tctgttagga cgctgttca cccctcctct gtttcactct ttacaccaca
121 gaagaagaag gattctaagg agaagatgca gagagagaga gagagatcac aaggctgcaa
181 acatatcatg ctgaaaagga gattttcacct gcgggttacc aaaaaaata ggtcacacat
241 tccaaattag tgcaaacttg gattcctatt acactcatga ctttaaattt attagttaaa
301 attaaacctt att
```

L2 ANSWER 102 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB559554 GenBank (R)
GenBank ACC. NO. (GBN): BB559554
GenBank VERSION (VER): BB559554.1 GI:9645920
CAS REGISTRY NO. (RN): 284984-30-1
SEQUENCE LENGTH (SQL): 334
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 1 Aug 2000
DEFINITION (DEF): BB559554 RIKEN full-length enriched, 2 days pregnant adult female ovary Mus musculus cDNA clone E330039G15 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 117 a 90 c 41 g 86 t

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 334)
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..334	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330039G15" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCCAACTCGAGTTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1 gtacttcaca tacatcatcc acctctagac tttcaccaat ttccacaccc ctttccttcc
61 ctttcacact gaaccaccac tgtccactga ttccccctct cccaacttt ctctcacttc
121 ctacactaca gaagaagaag gatccaaagg agaatcatta gagagagaga gagagatcac
181 aaggctgaaa accaatcatg gtgaaaagaa gatttcacct ccggcttaca aaaacaaata
241 ggtcacacat tccaaattag tgaaaacttg gattcctatt acatcatga ctttaaat
301 attagttaaa attaaacctt attaaaaaaa tagg

```

L2 ANSWER 103 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB559080 GenBank (R)
GenBank ACC. NO. (GBN): BB559080
GenBank VERSION (VER): BB559080.1 GI:9645446
CAS REGISTRY NO. (RN): 284979-54-0
SEQUENCE LENGTH (SQL): 319
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 1 Aug 2000
DEFINITION (DEF): BB559080 RIKEN full-length enriched, 2 days pregnant
adult female ovary Mus musculus cDNA clone E330037E03
3' similar to AF076619 Rattus norvegicus molecular
adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE:

ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 108 a 62 c 62 g 87 t

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan

Tel: 81-45-503-9222

Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,

URL: <http://genome.gsc.riken.go.jp/>

Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 319)

AUTHOR (AU):

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..319	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330037E03" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTTT TTTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a</pre>

SEQUENCE (SEQ):

```
1  tgtttacaga cctgatccag ccgctggaat tcaacctcct taactggggg tccttccttc
61  catgctgaag cattattctg ctaggacggc tgttatcccc aactttgttt cactcgtcac
121 actacagtag aagaagtag caaaggagaa tgattagaga gagagagaga gatcacaagg
181 ctgaaaacaa atcatggtga aaagaagatt tcacctgcgg gttacaaaaa aaaatagggtc
241 acacattgca aattagttaa aacttggatt cctattacac tcatgacttt aaatttatta
301 gttaaaatta aaccttatt
```

L2 ANSWER 104 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB558470 GenBank (R)
GenBank ACC. NO. (GBN): BB558470
GenBank VERSION (VER): BB558470.1 GI:9644836
CAS REGISTRY NO. (RN): 284973-44-0
SEQUENCE LENGTH (SQL): 250
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 1 Aug 2000
DEFINITION (DEF): BB558470 RIKEN full-length enriched, 2 days pregnant
adult female ovary Mus musculus cDNA clone E330034C06
3' similar to AF076619 Rattus norvegicus molecular
adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE:
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 74 a 54 c 49 g 73 t
COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermostabilization and thermoactivation of thermolabile enzymes by
trehalose and its application for the synthesis of full length
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
Y. and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE: 1 (bases 1 to 250)
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.
TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	qualifier
source	1..250	/organism="Mus musculus" /db-xref="taxon:10090" /clone="E330034C06" /clone-lib="RIKEN full-length enriched, 2 days pregnant adult female ovary" /sex="female" /tissue-type="ovary" /dev-stage="2 days pregnant adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1  ctttagcagc tgaaatgaat gctgacagat cccctacaca gatactgcag gtgttttttaa
61  gctccagcac gtatcctgaa atccatggct tcttacatgc aaaggaacag ggaaagaagt
121 cttggaaaaa agcttacttt tttctcagaa gatctggcct atattttttt actaaaggca
181 catccaagga accacggcat ttgcagcttt tcagtgaatt cagcactagt cacgtttata
241 tgtcactggc

```

L2 ANSWER 105 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB519321 GenBank (R)
 GenBank ACC. NO. (GBN): BB519321
 GenBank VERSION (VER): BB519321.1 GI:9570779
 CAS REGISTRY NO. (RN): 284222-57-7
 SEQUENCE LENGTH (SQL): 319
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 28 Jul 2000
 DEFINITION (DEF): BB519321 RIKEN full-length enriched, 16 days neonate
 heart Mus musculus cDNA clone D830035H10 3' similar to
 AF076619 Rattus norvegicus molecular adapter rGrb14 (
 Grb14) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 106 a 71 c 58 g 84 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,

URL:<http://genome.gsc.riken.go.jp/>
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE: 1 (bases 1 to 319)
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..319	/organism="Mus musculus" /db-xref="taxon:10090" /clone="D830035H10" /clone-lib="RIKEN full-length enriched, 16 days neonate heart" /tissue-type="heart" /dev-stage="16 days neonate" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGCGGCCGCAACTCGAGTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):
 1 acttcacaga cctccttcca gctcgtggct tctaccagct caacaggggc tccttcctc

61 caagctgaac cattactttg ctaggatggc cgtttaccac aactttgtct cactcgttac
 121 actacagaag aagaaggatc cataggagaa tgatcagaga gagagagaga gatcactagg
 181 ctgaaaacaa atcatggtga aaagaagatt tcacctgcgg gttacaaaaa ataatagggtc
 241 acacattgca aattagttaa aacttggatt cctattacac tcatgacttt aaatttatta
 301 gttaaaatta aaccttatt

L2 ANSWER 106 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB360808 GenBank (R)
 GenBank ACC. NO. (GBN): BB360808
 GenBank VERSION (VER): BB360808.1 GI:9072636
 CAS REGISTRY NO. (RN): 279052-46-9
 SEQUENCE LENGTH (SQL): 231
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 12 Jul 2000
 DEFINITION (DEF): BB360808 RIKEN full-length enriched, adult male corpus striatum Mus musculus cDNA clone C030049M20 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 87 a 45 c 38 g 61 t
 COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
 Please visit our web site (http://genome.rtc.riken.go.jp) for further details.

REFERENCE: 1 (bases 1 to 231)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..231	/organism="Mus musculus" /strain="C57BL/6J"

/db-xref="taxon:10090"
 /clone="C030049M20"
 /clone-lib="RIKEN full-length
 enriched, adult male corpus
 striatum"
 /sex="male"
 /tissue-type="corpus striatum"
 /dev-stage="adult"
 /lab-host="DH10B"
 /note="Site-1: SalI; Site-2:
 BamHI; cDNA library was prepared
 and sequenced in Mouse Genome
 Encyclopedia Project of Genome
 Exploration Research Group in
 Riken Genomic Sciences Center and
 Genome Science Laboratory in
 RIKEN. Division of Experimental
 Animal Research in Riken
 contributed to prepare mouse
 tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT
 TTTTTTTVN 3'], cDNA was prepared
 by using trehalose
 thermo-activated reverse
 transcriptase and subsequently
 enriched for full-length by
 cap-trapper. cDNA went through one
 round of normalization to Rot =
 10.0 and subtraction to Rot =
 185.0. Second strand cDNA was
 prepared with the primer adapter
 of sequence [5'
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
 CCCCCCCCCC 3']. cDNA was cloned
 into the XhoI and BamHI sites.
 Vector: a modified pBluescript
 KS(+) after bulk excision from
 Lambda FLC I. Cloning sites, 5'
 end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

1 cctgttcagc ccaactctgt ctcaactccct acactacaga agaagaagga ttcacaggtg
 61 tatgattaga gagagaaaga gagatcacaa ggctgaaaac aaatcatggt gtaaagaaga
 121 tttcacctgc ggcttaccaa aaaaaatagg tcacacattc caaattagtg aaaacttgga
 181 ttcctattac actcatgact ttaaatttat tagttaaat taaaccttat t

L2 ANSWER 107 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB360354 GenBank (R)
 GenBank ACC. NO. (GBN): BB360354
 GenBank VERSION (VER): BB360354.1 GI:9072182
 CAS REGISTRY NO. (RN): 279047-92-6
 SEQUENCE LENGTH (SQL): 284
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 12 Jul 2000
 DEFINITION (DEF): BB360354 RIKEN full-length enriched, adult male corpus
 striatum Mus musculus cDNA clone C030046J22 3' similar
 to AF076619 Rattus norvegicus molecular adapter rGrb14
 (***Grb14***) mRNA, mRNA sequence.
 SOURCE:
 ORGANISM (ORGN): house mouse.
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 103 a 53 c 54 g 74 t
 COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,

URL:<http://genome.gsc.riken.go.jp/>
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE: 1 (bases 1 to 284)
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..284	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="C030046J22" /clone-lib="RIKEN full-length enriched, adult male corpus striatum" /sex="male" /tissue-type="corpus striatum" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: Sali; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 185.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned

into the XhoI and BamHI sites.
Vector: a modified pBluescript
KS(+) after bulk excision from
Lambda FLC I. Cloning sites, 5'
end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```
1 agctcaacag ggggggtcctt ccttccaagc tgaaccatca ctgtgctagg atggctgttt
61 agccaaactt tctttcactc tttacactac agaagaagaa ggatcccaag gagaatgatt
121 agagagagag agagagatca caaggctgaa aacaaatcat ggtgaaaaga agatttcacc
181 tccgggttac aaaaaaaaaat aggtcacaca ttgcaaatta gtgaaaactt ggattcctat
241 tacactcatg actttaaatt tattagttaa aattaaacct tatt
```

L2 ANSWER 108 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB359872 GenBank (R)
GenBank ACC. NO. (GBN): BB359872
GenBank VERSION (VER): BB359872.1 GI:9071700
CAS REGISTRY NO. (RN): 279043-10-6
SEQUENCE LENGTH (SQL): 245
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 12 Jul 2000
DEFINITION (DEF): BB359872 RIKEN full-length enriched, adult male corpus
striatum Mus musculus cDNA clone C030043M21 3' similar
to AF076619 Rattus norvegicus molecular adapter rGrb14
(***Grb14***) mRNA, mRNA sequence.
SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 92 a 55 c 40 g 58 t
COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermostabilization and thermoactivation of thermolabile enzymes by
trehalose and its application for the synthesis of full length
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
Y. and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE: 1 (bases 1 to 245)
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.
TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..245	<pre>/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="C030043M21" /clone-lib="RIKEN full-length enriched, adult male corpus striatum" /sex="male" /tissue-type="corpus striatum" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 185.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"</pre>

SEQUENCE (SEQ):

```
1 accatccac gacgcccgt caccgccact gtgtttcact cgatacacca cagaagaaga
61 aggatcccaa ggagaatgat tagagagaga gagagagatc acaagcctga aaacaaatca
121 tgctgaaaag aagatttcac ctccgggtta caaaaaaaaa tagttcacac attccaaatt
181 agtggaact tggattccta ttacactctt gactttaaat ttattagta aaattaaacc
241 ttatt
```

L2 ANSWER 109 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB319216 GenBank (R)
GenBank ACC. NO. (GBN): BB319216
GenBank VERSION (VER): BB319216.1 GI:9026251
CAS REGISTRY NO. (RN): 278502-24-2
SEQUENCE LENGTH (SQL): 311
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 11 Jul 2000
DEFINITION (DEF): BB319216 RIKEN full-length enriched, adult male corpora
quadrigemina Mus musculus cDNA clone B230379D24 3'
similar to AF076619 Rattus norvegicus molecular adapter
rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 89 a 69 c 61 g 92 t
COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 311)
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..311	/organism="Mus musculus" /db-xref="taxon:10090" /clone="B230379D24" /clone-lib="RIKEN full-length enriched, adult male corpora quadrigemina" /sex="male" /tissue-type="corpora quadrigemina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTIVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by

cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```
1 tatcccaaat tcgaattttt taagaacccc atgtatttct ttccagagca catggtgtct
61 ttgacagctg aaatgaatgg tgacagatcc cctacacagg tactgcaggt gtttttaagc
121 tccagcacgt atcctgaaat ccacggcttc ttacatgcaa aggaacaggg aaagaagtct
181 tggaaaaaag cttacttttt tctcagaaga tctggctcat atttttctac taaaggcaca
241 tccaaggaac cacggcattt gcagcttttc agtgaattca gcactagtca cgtttatatg
301 tcactggcag g
```

L2 ANSWER 110 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB283308 GenBank (R)
GenBank ACC. NO. (GBN): BB283308
GenBank VERSION (VER): BB283308.1 GI:8983757
CAS REGISTRY NO. (RN): 278048-97-8
SEQUENCE LENGTH (SQL): 503
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 1 Aug 2000
DEFINITION (DEF): BB283308 RIKEN full-length enriched, adult retina Mus musculus cDNA clone A930101L21 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 162 a 97 c 113 g 131 t

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 503)
Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;

Sogabe,Y.; Sugahara,Y., Suzuki,H.,; Suzuki,H.;
 Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;
 Tsunoda,Y.; watahiki,A.; Watanabe,S.; Yamamura,T.;
 Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.;
 Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;
 Hayashizaki,Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A930101L21" /clone-lib="RIKEN full-length enriched, adult retina" /tissue-type="retina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5'GAGAGAGAGATTCTCGAGTTAATTAAATTAA TCCCCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. ~Retina RNA was provided by Stefano Gustincich, Department of Neurobiology, Harvard Medical School, 220 Longwood Ave., Boston, MA02115, USA, whose assistance we gratefully acknowledge

SEQUENCE (SEQ):

```

1 aggctcggcc gctgattcatt ccgcggggcc tctggatgga gttttcttgt tacggatagt
61 tcagagtaac cccagaactt ttgtactgtc aatgagtcac ggacaaaaga taaaacacta
121 tcaaattata cccgtagaag atgatggtga gctgttccat actctggatg atggccatac
181 gaagttcaca cacctcatcc agctggtgga gttctaccag ctcaacaggg gggctcctcc
241 ttgcaagctg aagcattact gtgctaggat ggctgtttag ccaaactgtt tgtcactcgt
301 tacactacag aagaagaagg atgcaaagga gaatgattag agagagagag agagatcaca
361 aggctgaaaa caaatcatgg tgaaaagaag atttcacctg cgggttacaa aaaaaaatag
421 gtcacacatt ccaaattagt gaaaacttgg attcctatta cactcatgac tttaaattta
481 gttagttaaa attaaacctt att

```

L2 ANSWER 111 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB282445 GenBank (R)
 GenBank ACC. NO. (GBN): BB282445
 GenBank VERSION (VER): BB282445.1 GI:8982894
 CAS REGISTRY NO. (RN): 278040-34-9
 SEQUENCE LENGTH (SQL): 281
 MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 1 Aug 2000
 DEFINITION (DEF): BB282445 RIKEN full-length enriched, adult retina Mus
 musculus cDNA clone A930037N11 3' similar to AF076619
 Rattus norvegicus molecular adapter rGrb14 (
 Grb14) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 92 a 86 c 37 g 66 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 281)
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.

TITLE (TI):

JOURNAL (SO):

RIKEN Mouse ESTs (Konno, H., et al.)
 Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..281	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A930037N11" /clone-lib="RIKEN full-length enriched, adult retina" /tissue-type="retina" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental

Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5'GAGAGAGAGATTCTCGAGTTAATTAAATTAA TCCCCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. ~Retina RNA was provided by Stefano Gustincich, Department of Neurobiology, Harvard Medical School, 220 Longwood Ave., Boston, MA02115, USA, whose assistance we gratefully acknowledge

SEQUENCE (SEQ):

```

1 ccgtatccct tccatcccca cctgatagta tccctcccca tcccacgcct cccctcgccc
61 tacatccccc tcacttcact acaccacaga gaagcaggat cccccccgac aatcactaga
121 gagagagaga gagattacaa ccctgaaaac aaatcatggt gacaagaaga ttttaccccc
181 gggttacaaa agaaaatagc tcacacattg caaattagtg aaaacttgga ttctattac
241 attcatgact ttaaatttat tagttaaaat taaaccttac t

```

L2 ANSWER 112 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB191006 GenBank (R)
 GenBank ACC. NO. (GBN): BB191006
 GenBank VERSION (VER): BB191006.1 GI:8851625
 CAS REGISTRY NO. (RN): 276734-11-3
 SEQUENCE LENGTH (SQL): 276
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 30 Jun 2000
 DEFINITION (DEF): BB191006 RIKEN full-length enriched, adult male spinal cord Mus musculus cDNA clone A330065D15 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 97 a 62 c 45 g 72 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 276)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..276	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330065D15" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "</pre>

SEQUENCE (SEQ):

```
1 cctgggatcc ttcccttcaa gctgcaacat cactttgcta ggacgcccgt taaccccaac
61 tctgtttcac tcattacacc acagaaggag aaggatccaa aggagaatga ttagagagag
121 agagagagat cacaaggctg aaaacaattc atcgtgaaaa gcagatttca cctccggctt
181 accaaaataa atagttcaca cattccaaat tagtgaaaac ttggattcct attacactca
241 tgactttaaa ttattagatt aaaattaaac cttatt
```

LOCUS (LOC): BB187252 GenBank (R)
 GenBank ACC. NO. (GBN): BB187252
 GenBank VERSION (VER): BB187252.1 GI:8847823
 CAS REGISTRY NO. (RN): 276657-85-3
 SEQUENCE LENGTH (SQL): 289
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 30 Jun 2000
 DEFINITION (DEF): BB187252 RIKEN full-length enriched, adult male spinal
 cord Mus musculus cDNA clone A330041E09 3' similar to
 AF076619 Rattus norvegicus molecular adapter rGrb14 (
 Grb14) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 105 a 51 c 58 g 75 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 289)
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..289	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330041E09" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2:

BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

SEQUENCE (SEQ):

```

1 ttaccagctc aaaagggggc tccttccttg caagctgaac cataactgtg ctaggatggc
61 tgttttagcct tactctgttt cactcggtac actacagaag aagaaggatg caaaggagaa
121 tgatcagaga gagagagaga gatcacaagg ctgaaaacaa atcatggtga aaagaagatt
181 tcacctgcgg gttacaaaaa aaaataggtc acacattgca aattagtga aacttggatt
241 cctattacac tcatgacttt aaatttatta gttaaaatta aaccttatt

```

L2 ANSWER 114 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB184777 GenBank (R)
 GenBank ACC. NO. (GBN): BB184777
 GenBank VERSION (VER): BB184777.1 GI:8845348
 CAS REGISTRY NO. (RN): 276633-09-1
 SEQUENCE LENGTH (SQL): 215
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 30 Jun 2000
 DEFINITION (DEF): BB184777 RIKEN full-length enriched, adult male spinal cord Mus musculus cDNA clone A330015N04 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 87 a 32 c 38 g 58 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 215)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..215	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="A330015N04" /clone-lib="RIKEN full-length enriched, adult male spinal cord" /sex="male" /tissue-type="spinal cord" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "</pre>

SEQUENCE (SEQ):

```
1 ttgtttcatt ccttacacca cagaagaaga acgatccaaa ggagtatgat tagagagaga
61 gagagagatc acaaggctga aaacaaatca tggtgaaaag aagatttcac ctgcgggtta
121 caaaaaaaaa taggtcacac attgcaaat agtgaaaact tggattccta ttacattcat
181 gactttaaat ttattagtta aaattaaacc ttatt
```

GenBank ACC. NO. (GBN): BB173204
 GenBank VERSION (VER): BB173204.1 GI:8832287
 CAS REGISTRY NO. (RN): 276506-98-0
 SEQUENCE LENGTH (SQL): 282
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 29 Jun 2000
 DEFINITION (DEF): BB173204 RIKEN full-length enriched, adult male
 hypothalamus *Mus musculus* cDNA clone A230044K20 3'
 similar to AF076619 *Rattus norvegicus* molecular adapter
 rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE:
 ORGANISM (ORGN): *Mus musculus*
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; *Mus*

NUCLEIC ACID COUNT (NA): 98 a 55 c 55 g 74 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. *Genome Res.* 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. *Methods Enzymol.* 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 282)
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..282	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A230044K20" /clone-lib="RIKEN full-length enriched, adult male hypothalamus" /sex="male" /tissue-type="hypothalamus" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: Sali; Site-2: BamHI; cDNA library was prepared"

and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

SEQUENCE (SEQ):

```

1 gctcaacagg gggtccttcc ttcccagctg aagcattact gtgctaggat gcctgtttac
61 cctaactctg tgtcactcgt tacactacag tagaagaagg atgcaaagga gaatgatcag
121 agagagagag agagatcaca agcctgaaaa caaatcatgg tgtaaagaag atttcacctg
181 cggggttacca aaaaaaatag gtcacacatt ccaaattagt gaaaacttgg attcctatta
241 cactcatgac tttaaattta ttagttaaaa ttaaacctta tt

```

L2 ANSWER 116 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB170892 GenBank (R)
 GenBank ACC. NO. (GBN): BB170892
 GenBank VERSION (VER): BB170892.1 GI:8829975
 CAS REGISTRY NO. (RN): 276483-86-4
 SEQUENCE LENGTH (SQL): 259
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 29 Jun 2000
 DEFINITION (DEF): BB170892 RIKEN full-length enriched, adult male hypothalamus *Mus musculus* cDNA clone A230022B15 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): *Mus musculus*
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; *Mus*
 NUCLEIC ACID COUNT (NA): 79 a 55 c 45 g 80 t
 COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. *Genome Res.* 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 259)

Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;
Arakawa,T.; Carninci,P.; Endo,T.; Fukuda,S.;
Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;
Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;
Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;
Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;
Kurihara,C.; Kusakabe,M.; Matsuyama,T.; Miki,R.;
Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y;
Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;
Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;
Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.;
Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;
Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;
Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.;
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;
Hayashizaki,Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno,H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..259	/organism="Mus musculus" /db-xref="taxon:10090" /clone="A230022B15" /clone-lib="RIKEN full-length enriched, adult male hypothalamus" /sex="male" /tissue-type="hypothalamus" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 459.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. "

SEQUENCE (SEQ):

1 cctgatatta tacacctaaa atgcatgcag acagatccct tacacagata ctgcacgtgt
61 tttaagctc cagcacctat cctgaaatcc atggcttctt tcatccaaag gaacagggaa
121 agaattattg gaaaaaagct tacttttttt tcagaagatt tggcttatat ttttttacta
181 aaggcacatc caaggaacca tggcatttgc agcttttcag tgaattcagc actagtcacg
241 ttatattgtc actggcagg

GenBank ACC. NO. (GBN): BB124451
 GenBank VERSION (VER): BB124451.1 GI:8777019
 CAS REGISTRY NO. (RN): 275947-71-2
 SEQUENCE LENGTH (SQL): 312
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 27 Jun 2000
 DEFINITION (DEF): BB124451 RIKEN full-length enriched, adult male urinary bladder *Mus musculus* cDNA clone 9530097N18 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): *Mus musculus*
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; *Mus*

NUCLEIC ACID COUNT (NA): 108 a 60 c 60 g 84 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. *Genome Res.* 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. *Methods Enzymol.* 303, 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU): 1 (bases 1 to 312)
 Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..312	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530097N18" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="site-1: SalI; site-2:

BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT TTTTTT 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1 gacttcatcc agcttgtgga gttttaccac ctctacaggg gggtccttcc ttgcaacctg
61 aagcttcact ttgctaggaa ggcaatttac cccaactgtc tgtcactcat tacactacag
121 aagaagaagg atcctaagga gaatgattag agagagagag agagatcaca aggctgaaaa
181 caaatcatgg tgaaaagaag atttcacctg cgggttacaa aaaaaaatag gtcacacatt
241 gctaattagt gaaaacttgg attcctatta cactcatgac tttaaattta ttagttaaaa
301 ttaaacctta tt

```

L2 ANSWER 118 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB115268 GenBank (R)
 GenBank ACC. NO. (GBN): BB115268
 GenBank VERSION (VER): BB115268.1 GI:8767836
 CAS REGISTRY NO. (RN): 275855-88-4
 SEQUENCE LENGTH (SQL): 235
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 27 Jun 2000
 DEFINITION (DEF): BB115268 RIKEN full-length enriched, adult male urinary bladder *Mus musculus* cDNA clone 9530049M14 3' similar to AF076619 *Rattus norvegicus* molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): *Mus musculus*
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; *Mus*

NUCLEIC ACID COUNT (NA): 89 a 39 c 45 g 62 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation

system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 235)

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..235	<pre>/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530049M14" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."</pre>

SEQUENCE (SEQ):

```
1 atggtctgttt atccctactg cgtctcactc gttacactac agaaggagaa ggattctaag
61 gagaatgatc agagagagag agagagatca caaggctgaa aacaaatcat ggtgaaaaga
121 agatttcacc tgcgggttac caaaaaaaaa taggtcacac attgcaaatt agtgaaaact
181 tggattccta ttacactcat gactttaaat ttattagtta aaattaaacc ttatt
```

LOCUS (LOC): BB114126 GenBank (R)
 GenBank ACC. NO. (GBN): BB114126
 GenBank VERSION (VER): BB114126.1 GI:8766694
 CAS REGISTRY NO. (RN): 275844-46-7
 SEQUENCE LENGTH (SQL): 316
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 27 Jun 2000
 DEFINITION (DEF): BB114126 RIKEN full-length enriched, adult male urinary bladder Mus musculus cDNA clone 9530044F23 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 110 a 67 c 55 g 84 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE: 1 (bases 1 to 316)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..316	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530044F23" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult"

/lab-host="DH108"
 /note="Site-1: SalI; Site-2:
 BamHI; cDNA library was prepared
 and sequenced in Mouse Genome
 Encyclopedia Project of Genome
 Exploration Research Group in
 Riken Genomic Sciences Center and
 Genome Science Laboratory in
 RIKEN. Division of Experimental
 Animal Research in Riken
 contributed to prepare mouse
 tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT
 TTTTTTTVN 3'], cDNA was prepared
 by using trehalose
 thermo-activated reverse
 transcriptase and subsequently
 enriched for full-length by
 cap-trapper. cDNA went through one
 round of normalization to Rot =
 20.0 and subtraction to Rot =
 370.0. Second strand cDNA was
 prepared with the primer adapter
 of sequence [5'
 GAGAGAGAGATTCTCGAGTTAATTAATTAATCC
 CCCCCCCCCC 3']. cDNA was cleaved
 with XhoI and BamHI. Vector: a
 modified pBluescript KS(+) after
 bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1 ccacagacct tatccagcac gtcgatttca ccagctccat aggggggtcc ttccttgcca
61 cctgaaacat tacttttctt ggaagcctct ttacccaac ttgtttcac tccttacact
121 acagaagaag aaggatccaa aggagaatga tcagagagag agagagagat cactaggctg
181 aaaacaaatc atggtgaaaa gaagatttaa cctgcgggtt acaaaaaaaaa ataggtcaca
241 cattgcaaat tagtgaaaac ttggattcct attacactca tgactttaa tttattagtt
301 aaaattaaac cttatt

```

L2 ANSWER 120 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB108361 GenBank (R)
 GenBank ACC. NO. (GBN): BB108361
 GenBank VERSION (VER): BB108361.1 GI:8760929
 CAS REGISTRY NO. (RN): 275745-24-9
 SEQUENCE LENGTH (SQL): 249
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 27 Jun 2000
 DEFINITION (DEF): BB108361 RIKEN full-length enriched, adult male urinary
 bladder Mus musculus cDNA clone 9530011B11 3' similar
 to AF076619 Rattus norvegicus molecular adapter rGrb14
 (***Grb14***) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 102 a 44 c 39 g 64 t
 COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL:http://genome.gsc.riken.go.jp/
 Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki
 ,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki

,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE: 1 (bases 1 to 249)
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;
Arakawa,T.; Carninci,P. ; Endo,T.; Fukuda,S.;
Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.;
Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.;
Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.;
Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.;
Kurihara,C.; Kusakabe,M.; Matsuyama,T. ; Miki,R.;
Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Ono,T.y;
Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.;
Shibata,Y.; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.;
Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.;
Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a;
Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.;
Yamanaka,I.; Yano,R.H; Yasunishi,A.; Yokota,T.;
Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.;
Hayashizaki,Y.
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..249	/organism="Mus musculus" /db-xref="taxon:10090" /clone="9530011B11" /clone-lib="RIKEN full-length enriched, adult male urinary bladder" /sex="male" /tissue-type="urinary bladder" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 20.0 and subtraction to Rot = 370.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCC 3']. cDNA was cleaved with XhoI and BamHI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I."

SEQUENCE (SEQ):

```

1 accctatc tgcaaggatg actatctacc caaactatct ctactcatt acacaacaga
61 agaagaagga ttcaaaggag aatgattaga gagagagaga gatcacaagc ctgaaaacaa
121 atcatggtga aaagaagatt tcacctgcgg gttacaaaaa aaaataggtc acacattcca
181 aattagttaa aacttggtatt cctattacac tcatgacttt aaatttatta gttaaaatta

```

LOCUS (LOC): BB070600 GenBank (R)
 GenBank ACC. NO. (GBN): BB070600
 GenBank VERSION (VER): BB070600.1 GI:8580598
 CAS REGISTRY NO. (RN): 273680-63-0
 SEQUENCE LENGTH (SQL): 270
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 25 Jun 2000
 DEFINITION (DEF): BB070600 RIKEN full-length enriched, 15 days embryo
 male testis *Mus musculus* cDNA clone 8030491011 3'
 similar to AF076619 *Rattus norvegicus* molecular adapter
 rGrb14 (****Grb14****) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): *Mus musculus*
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; *Mus*
 NUCLEIC ACID COUNT (NA): 93 a 57 c 45 g 75 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: <http://genome.gsc.riken.go.jp/>
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by
 trehalose and its application for the synthesis of full length
 cDNA. *Proc. Natl. Acad. Sci. U.S.A.* 95 (2), 520-524 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
 Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation
 system. *Genome Res.* 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. *Methods Enzymol.* 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE:

1 (bases 1 to 270)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
 Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
 Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
 Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
 Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
 Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
 Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T. y;
 Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
 Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
 Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
 Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T. a;
 Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
 Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
 Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
 Hayashizaki, Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
 JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..270	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="8030491011" /clone-lib="RIKEN full-length enriched, 15 days embryo male

testis"
 /sex="male"
 /tissue-type="testis"
 /dev-stage="15 days embryo"
 /lab-host="DH10B"
 /note="Site-1: SalI; Site-2:
 BamHI; cDNA library was prepared
 and sequenced in Mouse Genome
 Encyclopedia Project of Genome
 Exploration Research Group in
 Riken Genomic Sciences Center and
 Genome Science Laboratory in
 RIKEN. Division of Experimental
 Animal Research in Riken
 contributed to prepare mouse
 tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAAGGATCCAAGAGCTTTTTTTTTT
 TTTTTTTVN 3'], cDNA was prepared
 by using trehalose
 thermo-activated reverse
 transcriptase and subsequently
 enriched for full-length by
 cap-trapper. cDNA went through one
 round of subtraction to Rot =
 185.0 second strand cDNA was
 prepared with the primer adapter
 of sequence [5'
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
 CCCCCCCCCC 3']. cDNA was cloned
 into the XhoI and BamHI sites.
 Vector: a modified pBluescript
 KS(+) after bulk excision from
 Lambda FLC I. Cloning sites, 5'
 end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```

1 ctccttcctt ccttgctgca ccaatcctat gtttggatgc ctgcttaacc caactgtgtg
61 tcactcataa cactacagca gtagatggat ccaatggagg atgattagag agagagagag
121 agatcacaag cctgcaaaca aatcatggtg aaaagaagat ttcacctccg gcttacaaaa
181 aaaaatagct cacacattgc aaattagtga aaacttggat tcctattaca ctcatgactt
241 taaattttatt agttaaatt aaaccttatt

```

L2 ANSWER 122 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB045416 GenBank (R)
 GenBank ACC. NO. (GBN): BB045416
 GenBank VERSION (VER): BB045416.1 GI:8451802
 CAS REGISTRY NO. (RN): 272392-50-4
 SEQUENCE LENGTH (SQL): 323
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 23 Jun 2000
 DEFINITION (DEF): BB045416 RIKEN full-length enriched, 13 days embryo
 male testis Mus musculus cDNA clone 6030495A12 3'
 similar to AF076619 Rattus norvegicus molecular adapter
 rGrb14 (***Grb14***) mRNA, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 113 a 63 c 59 g 88 t
 COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki
 N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 Thermostabilization and thermoactivation of thermolabile enzymes by

trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci,P. and Hayashizaki,Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE: 1 (bases 1 to 323)
AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Arakawa,T.; Carninci,P. ; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,J.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.; Kawai,J.; Kikuchi,N.; Kiyosawa,H.; Kojima,Y.; Kondo,S.; Koya,S.; Kurihara,C.; Kusakabe,M.; Matsuyama,T. ; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y., Ono,T.y; Owa,C.; Saito,H.; Sakai,C.; Sato,K.; Shibata,K.; Shibata,Y.,; Shigemoto,Y.; Shinagawa,A.; Shiraki,T.; Sogabe,Y.; Sugahara,Y., Suzuki,H.,; Suzuki,H.; Tagawa,A.; Takahashi,F.; Tominaga,N.; Toya,T.a; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yamanaka,I., Yano,R.H; Yasunishi,A.; Yokota,T.; Yoshida,K.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.
TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al.)
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..323	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030495A12" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTT VN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5'

end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

```
1 attcccagtt ctgagacctt atccagctcc ggattacacc acttcacagg gggttccttc
61 cttccaaact gaagcattat tgccttagga tggctgttta gccaaactct gtttcaatcg
121 ttactacta gaagaagaag gatccaaagg agaattgatta gagagagaga gagagatcac
181 aaggctgtaa acaaatcatg gtgaaaagaa gatttcacct gcgggttaca aaaaaaata
241 ggtcacacat tgcaaattag tgaaaacttg gattcctatt acatcatga ctttaaattt
301 attagttaaa attaaacctt att
```

L2 ANSWER 123 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB042697 GenBank (R)
GenBank ACC. NO. (GBN): BB042697
GenBank VERSION (VER): BB042697.1 GI:8449083
CAS REGISTRY NO. (RN): 272365-31-8
SEQUENCE LENGTH (SQL): 289
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 23 Jun 2000
DEFINITION (DEF): BB042697 RIKEN full-length enriched, 13 days embryo
male testis Mus musculus cDNA clone 6030465G02 3'
similar to AF076619 Rattus norvegicus molecular adapter
rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE:
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 104 a 62 c 51 g 72 t

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki,
N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Thermostabilization and thermoactivation of thermolabile enzymes by
trehalose and its application for the synthesis of full length
cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki,
Y. and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation
system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
19-44 (1999)
Please visit our web site (<http://genome.rtc.riken.go.jp>) for
further details.

REFERENCE:

1 (bases 1 to 289)
AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.;
Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.;
Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.;
Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.;
Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.;
Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.;
Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.;
Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.;
Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.;
Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.;
Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.;
Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.;
Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.;
Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.;
Hayashizaki, Y.

TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al.)
JOURNAL (SO): Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..289	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030465G02" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

```

1 tctaccacta cacacggggt ctttcccccc aaccagcagc attactgtcc taggatcccc
61 gtttacccta actctgtgtc actcgttaca ccacagaaga agaaggatcc aaaggagaat
121 gattagagag agagagagag atcacaaggc tgaatacaaa tcatggtgaa aagaagattt
181 cacctgcggg ttacaaaaaa aaaataggtc acacattgca aattagttaa aacttggtt
241 cctattacac tcatgacttt aaattttatta gttaaaatta aaccttatt

```

L2 ANSWER 124 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): BB037605 GenBank (R)
GenBank ACC. NO. (GBN): BB037605
GenBank VERSION (VER): BB037605.1 GI:8443991
CAS REGISTRY NO. (RN): 272314-39-3
SEQUENCE LENGTH (SQL): 237
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 23 Jun 2000
DEFINITION (DEF): BB037605 RIKEN full-length enriched, 13 days embryo
forelimb Mus musculus cDNA clone 5930428012 3' similar
to AF076619 Rattus norvegicus molecular adapter rGrb14
(***Grb14***) mRNA, mRNA sequence.

SOURCE:
ORGANISM (ORGN): house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 84 a 50 c 40 g 63 t
COMMENT:
Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute

The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,

URL: <http://genome.gsc.riken.go.jp/>

Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagaoka, S., Sasaki, N., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.

Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)

Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

1 (bases 1 to 237)

AUTHOR (AU):

Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Arakawa, T.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, J.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C.; Kawai, J.; Kikuchi, N.; Kiyosawa, H.; Kojima, Y.; Kondo, S.; Koya, S.; Kurihara, C.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Ono, T.; Owa, C.; Saito, H.; Sakai, C.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shinagawa, A.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Tagawa, A.; Takahashi, F.; Tominaga, N.; Toya, T.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yamanaka, I.; Yano, R. H.; Yasunishi, A.; Yokota, T.; Yoshida, K.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.

TITLE (TI):

RIKEN Mouse ESTs (Konno, H., et al.)

JOURNAL (SO):

Unpublished (2000)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..237	<p>/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="5930428012" /clone-lib="RIKEN full-length enriched, 13 days embryo forelimb" /sex="mixed" /tissue-type="forelimb" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was</p>

prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

```

1 ggattgctct tttcccaaac tgtacctcac tccttacacc acaggagcag aaggatcccc
61 cggagaatga ttagagagag agagagaaat cacatggctg aaaacaaatc ttggtgaaaa
121 ccagatttca cctccgggtt accaaaaaaa ataggtcaca ctttccaaat tagtgaaaac
181 ttggattcct attacactca tgactttaaa ttattagtt aaaattaaac cttattg

```

L2 ANSWER 125 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF155647 GenBank (R)
 GenBank ACC. NO. (GBN): AF155647
 GenBank VERSION (VER): AF155647.1 GI:7262856
 CAS REGISTRY NO. (RN): 259713-78-5
 SEQUENCE LENGTH (SQL): 1978
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Rodents
 DATE (DATE): 19 Mar 2000
 DEFINITION (DEF): Mus musculus adaptor protein ***GRB14*** (***Grb14***) mRNA, complete cds.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 559 a 491 c 492 g 436 t
 REFERENCE: 1 (bases 1 to 1978)
 AUTHOR (AU): Reilly,J.F.; Mickey,G.; Maher,P.A.
 TITLE (TI): Association of fibroblast growth factor receptor 1 with the adaptor protein ***Grb14*** . Characterization of a new receptor binding partner
 JOURNAL (SO): J. Biol. Chem., 275 (11), 7771-7778 (2000)
 OTHER SOURCE (OS): CA 132:330035
 REFERENCE: 2 (bases 1 to 1978)
 AUTHOR (AU): Reilly,J.F.; Mickey,G.; Maher,P.A.
 TITLE (TI): Direct Submission
 JOURNAL (SO): Submitted (01-JUN-1999) Cell Biology, The Scripps Research Institute, 10550 N. Torrey Pines Rd., CAL-3, La Jolla, CA 92037, USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1978	/organism="Mus musculus" /db-xref="taxon:10090" /cell-line="NIH/3T3"
5'UTR	1..122	/gene="Grb14"
gene	1..1978	/gene="Grb14"
CDS	123..1739	/gene="Grb14" /note="member of Grb7 family" /codon-start=1 /product="adaptor protein GRB14" /protein-id="AAF43996.1" /db-xref="GI:7262857" /translation="MTTSLQDGQSAAGRAGAQDS PLAVQVCRVAQKGDAQDPAQVPG LHALSPASDATLRGAIDRRKMKDLDVLEKPPPIP PFPELCCSPLTSVLSAGLFPRANS RKKQVIKVYSEDETSRALEVPSDITARDVCQLLI LKNHYVDDNSWTLFEHLSHIGLER TVEDHELPTTEVLSHWGVEEDNKLYLRKNYAKYEF FKNPMYFFPEHMSVFAAEMNGDRS PTQILQVFLSSSTYPEIHGFLHAKEQGKKS WKKA YFFLRRLSGLYFSTKGTSKEPRHLQ LFSEFSTSHVYMSLAGKKKHGAPT PYGFCLKPNK AGGPRDLKMLCAEEEQSRTCWVTA IRLLKDGMLYQNYMHPYQGRSACNSQSMSPMRS VSENSLVAMDFSGEKSRVIDNPTE

ALSVAVEEGLAWRKKGCLRLGNHGSPSAPSQSSA
VNMAHRSQPWFHHRISRDEAQL
IIRQGPVDGVFLVRDSQSNPRTFVLSMSHGQKIK
HYQIIPVEDDGELFHTLDDGHTKF
TDLIQLVEFYQLNRGVLPCCLKHYCARMV"
/gene="Grb14"

3'UTR 1740..1978

SEQUENCE (SEQ):

```
1 ggggcccctgc caccgcacct gcaaggcgct cgctgcctgc aaccgctcgg ctctgctcgc
61 ccccagcccct tcgtagcttt cgctcgcgg tcgatgactc cctagacccc tggcctacga
121 ccatgaccac gtccctgcaa gacgggcaga gcgccgcggg ccgggcaggc gccaggatt
181 cgccgctggc agtgcagggt tgccgcgttg cccaggggcaa gggagacgcc caggaccggg
241 cgcagggtccc cggactgcac gcgctgtccc ccgcctccga tgcgaccctc cgcggtgcca
301 tagacaggag aaaaatgaaa gatctggatg ttctggaaaa gccaccatt cccaaccctt
361 ttcttgagct ctgctgctct ccgcttacat ctgtgctgtc agcaggcctg tttcccaggg
421 ccaattcaag gaagaagcag gtgattaaag ttacagcga ggatgaaacc agcagagcat
481 tagagggtgcc cagtgcacatc acagcccagag atgtttgcca gctgttgatc ctgaagaacc
541 actatgtgga cgacaacagc tggacccttt ttgagcacct atctcacata ggtttagaaa
601 gaaccgtaga ggaccacgag ctgccaaactg aagtgctgtc tcactgggga gtggaagaag
661 acaataagct gtatcttaga aagaattatg ccaaataatga attttttaag aacccaatgt
721 atttcttttc agagcacatg gtgtcttttg cagctgaaat gaatggtgac agatcccccta
781 cacagatact gcagggtgtt ttaagctcca gcacgtatcc tgaaatccat ggcttcttac
841 atgcaaagga acagggaag aagtcttgga aaaaagctta cttttttctc agaagatctg
901 gcttatattt ttctactaaa ggcacatcca aggaaccacg gcatttgcat ctttccagtg
961 aattcagcac tagtcacgtt tatatgtcac tggcaggaaa aaaaaaacac ggagcgcaa
1021 ctccctatgg attctgctta aagcctaaca aagcaggagg gccccgggac ctgaaaatgc
1081 tctgtgcaga agaagagcag agcaggacgt gctgggtgac cgccatccga ctgctgaagg
1141 atggcatgca gctgtatcag aattatatgc atccatacca aggtagaagc gcctgcaatt
1201 ctgagagcat gtcaccatg agaagcgtat cagagaattc cctagtagca atggacttct
1261 cagggtagaa gagcagagtc atagacaacc ccactgaagc gctttcgggt gctgttgagg
1321 aagccctcgc gtggaggaaa aaaggctgtt tacgcctggg gaatcacgga agccccagtg
1381 cccctcccca gagctctgct gtgaacatgg ctctccatcg gtcccaacca tggtttcacc
1441 acagaatttc cagagatgag gctcagcggc tgatcattcg gcaggggcct gtggatggag
1501 ttttcttggt acgggatagt cagagtaacc ccagaacttt tgtactgtca atgagtcag
1561 gacaaaagat aaaacactat caaattatac ccgtagaaga tgatggtgag ctgttccata
1621 ctctggatga tggccatacg aagttcacag acctcatcca gctggtggag ttctaccagc
1681 tcaacagggg ggtccttctt tgcaagctga agcattactg tgctaggatg gctgtttagc
1741 caaactgtgt gtcactcgtt acactacaga agaagaagga tgcaaaggag aatgattaga
1801 gagagagaga gagatcaciaa ggctgaaaac aaatcatggt gaaaagaaga tttcacctgc
1861 gggttacaaa aaaaaatagg tcacacattg caaattagtg aaaacttgga ttcctattac
1921 actcatgact ttaaatttat tagttaaatt taaaaaaaaa aaaaaaaa
```

L2 ANSWER 126 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV362938 GenBank (R)
GenBank ACC. NO. (GBN): AV362938
GenBank VERSION (VER): AV362938.1 GI:6410585
CAS REGISTRY NO. (RN): 249018-61-9
SEQUENCE LENGTH (SQL): 207
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 14 Nov 1999
DEFINITION (DEF): AV362938 RIKEN full-length enriched, 15 days embryo
male testis Mus musculus cDNA clone 8030405L12 3'
similar to AF076619 Rattus norvegicus molecular adapter
rGrb14 (***Grb14***) mRNA, mRNA sequence.
SOURCE:
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 76 a 37 c 34 g 60 t
COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/
Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,
Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki
Y.
Transcriptional sequencing: A method for DNA sequencing using RNA

polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,
 Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 207)
 Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;
 Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.;
 Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.;
 Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.;
 Kai,C.?.; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.;
 Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.;
 Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.;
 Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y.;
 Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.;
 Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.;
 Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.;
 Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.;
 Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.
 RIKEN Mouse ESTs (Konno,H., et al. 1999)

TITLE (TI):

JOURNAL (SO):

Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..207	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="8030405L12" /clone-lib="RIKEN full-length enriched, 15 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="15 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of subtraction to Rot = 185.0 Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

1 attttttctc tacagcagga gaaggatccc aaggagaatg attagagaga gagagagaca
 61 tcaccagcct gaaaacaaat tatgctgcac aggagatttc acctccggct tactaaagaa

121 aatagttcac acattccaaa ttagtgaaaa cttggattcc tattacaatc ttgactttaa
 181 atttattagt taaaatttaa ccttatt

L2 ANSWER 127 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV355587 GenBank (R)
 GenBank ACC. NO. (GBN): AV355587
 GenBank VERSION (VER): AV355587.1 GI:6396644
 CAS REGISTRY NO. (RN): 248828-30-0
 SEQUENCE LENGTH (SQL): 231
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 12 Nov 1999
 DEFINITION (DEF): AV355587 RIKEN full-length enriched, adult male adrenal
 gland Mus musculus cDNA clone 7330413L18 3' similar to
 AF076619 Rattus norvegicus molecular adapter rGrb14 (
 Grb14) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 93 a 32 c 36 g 70 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,
 Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki
 , Y.

Transcriptional sequencing: A method for DNA sequencing using RNA
 polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki
 , Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

REFERENCE:

1 (bases 1 to 231)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.;
 Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.;
 Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.;
 Kai, C. ?; Kawai, J.; Kikuchi, N.; Kojima, Y.; Koya, S.;
 Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.;
 Nakamura, M.; Oda, H.; Okazaki, Y.; Owa, C.; Ozawa, Y.;
 Saito, H.; Sano, M.; Sato, K.; Shibata, K.; Shibata, Y.;
 Shigemoto, Y.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.;
 Suzuki, H.; Suzuki, H.; Takahashi, F.; Tateno, M.;
 Tominaga, N.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.;
 Yamamura, T.; Yasunishi, A.; Yokota, T.; Yoshiki, A.;
 Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.
 RIKEN Mouse ESTs (Konno, H., et al. 1999)
 JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..231	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="7330413L18" /clone-lib="RIKEN full-length enriched, adult male adrenal gland" /sex="male"

/tissue-type="adrenal gland"
/dev-stage="adult"
/lab-host="DH10B"
/note="Site-1: SalI; site-2:
BamHI; cDNA library was prepared
and sequenced in Mouse Genome
Encyclopedia Project of Genome
Exploration Research Group in
Riken Genomic Sciences Center and
Genome Science Laboratory in
RIKEN. Division of Experimental
Animal Research in Riken
contributed to prepare mouse
tissues. 1st strand cDNA was
primed with a primer [5'
GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT
TTTTTTTVN 3'], cDNA was prepared
by using trehalose
thermo-activated reverse
transcriptase and subsequently
enriched for full-length by
cap-trapper. cDNA went through one
round of normalization to Rot =
10.0 and subtraction to Rot =
185.0. Second strand cDNA was
prepared with the primer adapter
of sequence [5'
GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
CCCCCCCCCCC 3']. cDNA was cloned
into the XhoI and BamHI sites.
Vector: a modified pBluescript
KS(+) after bulk excision from
Lambda FLC I. Cloning sites, 5'
end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```

1 gctttttacc ctaattatct ttcaattttt atactacaga agaagaagca tccaaaggag
61 aatgattaga gagagagaga gaaatcacaa ggctgaaaac aaattatggt gaaaagaaga
121 tttcacctgc gggttacaaa aaaaaatagt tcacacattg caaattagtg aaaacttgga
181 ttctattac attcatgact ttaaatttat tagtttaaata taaaccttat t

```

L2 ANSWER 128 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV335961 GenBank (R)
GenBank ACC. NO. (GBN): AV335961
GenBank VERSION (VER): AV335961.1 GI:6376013
CAS REGISTRY NO. (RN): 248628-93-5
SEQUENCE LENGTH (SQL): 193
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 11 Nov 1999
DEFINITION (DEF): AV335961 RIKEN full-length enriched, adult male medulla
oblongata Mus musculus cDNA clone 6330578M15 3' similar
to AF076619 Rattus norvegicus molecular adapter rGrb14
(***Grb14***) mRNA, mRNA sequence.
SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus
NUCLEIC ACID COUNT (NA): 73 a 32 c 35 g 52 t 1 others

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Sasaki,N., Izawa,M., Watahiki,M., Ozawa,K., Tanaka,T., Yoneda,Y.,
Matsuura,S., Carninci,P., Muramatsu,M., Okazaki,Y. and Hayashizaki
,Y.
Transcriptional sequencing: A method for DNA sequencing using RNA
polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)

Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y.

Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)

Carninci,P. and Hayashizaki,Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)

Please visit our web site (<http://genome.rtc.riken.go.jp>) for further details.

REFERENCE:

AUTHOR (AU):

1 (bases 1 to 193)

Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.; Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.; Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.; Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.; Kai,C.?.; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.; Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.; Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.; Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y.; Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.; Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.; Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.; Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.; Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.

RIKEN Mouse ESTs (Konno,H., et al. 1999)

TITLE (TI):

JOURNAL (SO):

Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..193	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6330578M15" /clone-lib="RIKEN full-length enriched, adult male medulla oblongata" /sex="male" /tissue-type="medulla oblongata" /dev-stage="adult" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTT VN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

1 aagaaagaag ggatcccaag gagcatgatt agagagagag aagagataac caggctgcac
61 accaatcatg gtgcaaagaa gaattttcac tttcgggtaa ccnactaata gctcacacat

121 ttcaaattag tggaaacttg gattcctatt acattcatga ctttaaattt attagttaaa
 181 attaaacctt att

L2 ANSWER 129 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV327707 GenBank (R)
 GenBank ACC. NO. (GBN): AV327707
 GenBank VERSION (VER): AV327707.1 GI:6367759
 CAS REGISTRY NO. (RN): 248487-17-4
 SEQUENCE LENGTH (SQL): 286
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 11 Nov 1999
 DEFINITION (DEF): AV327707 RIKEN full-length enriched, adult male medulla oblongata Mus musculus cDNA clone 6330436D10 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 105 a 52 c 53 g 76 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic
 Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216

Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,
 Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki
 , Y.

Transcriptional sequencing: A method for DNA sequencing using RNA
 polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J.,
 Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki
 , Y. and Hayashizaki, Y.

Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)

Carninci, P. and Hayashizaki, Y.

High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)

Please visit our web site (http://genome.rtc.riken.go.jp) for
 further details.

REFERENCE:

1 (bases 1 to 286)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.;
 Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.;
 Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.;
 Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.;
 Kai, C. ?; Kawai, J.; Kikuchi, N.; Kojima, Y.; Koya, S.;
 Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.;
 Nakamura, M.; Oda, H.; Okazaki, Y.; Owa, C.; Ozawa, Y.;
 Saito, H.; Sano, M.; Sato, K.; Shibata, K.; Shibata, Y. ;
 Shigemoto, Y.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.;
 Suzuki, H.; Suzuki, H.; Takahashi, F.; Tatenno, M.;
 Tomimaga, N.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.;
 Yamamura, T.; Yasunishi, A.; Yokota, T.; Yoshiki, A.;
 Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al. 1999)
 JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..286	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6330436D10" /clone-lib="RIKEN full-length enriched, adult male medulla oblongata" /sex="male"

/tissue-type="medulla oblongata"
/dev-stage="adult"
/lab-host="DH10B"
/note="Site-1: SalI; Site-2:
BamHI; cDNA library was prepared
and sequenced in Mouse Genome
Encyclopedia Project of Genome
Exploration Research Group in
Riken Genomic Sciences Center and
Genome Science Laboratory in
RIKEN. Division of Experimental
Animal Research in Riken
contributed to prepare mouse
tissues. 1st strand cDNA was
primed with a primer [5'
GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTT
TTTTTTTVN 3'], cDNA was prepared
by using trehalose
thermo-activated reverse
transcriptase and subsequently
enriched for full-length by
cap-trapper. cDNA went through one
round of normalization to Rot =
10.0 and subtraction to Rot =
100.0. Second strand cDNA was
prepared with the primer adapter
of sequence [5'
GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
CCCCCCCCCCC 3']. cDNA was cloned
into the XhoI and BamHI sites.
Vector: a modified pBluescript
KS(+) after bulk excision from
Lambda FLC I. Cloning sites, 5'
end: SalI; 3' end: BamHI"

SEQUENCE (SEQ):

```

1 gcaccagtca tcagggcctc cttcctccca aactgaagca ttattatgct aggatggctg
61 ttcagccata ctcttctcat tcttatacta cagaagaaga aggatgccaa aggagaatga
121 ttagagagag agagagagat cacaaggctg aaaacaaatc atggtgaaaa gaagatttca
181 cctgcgggtt acaaaaaaaaa ataggtcaca cattgcaaat tagtgaaaac ttggattcct
241 attacattca tgactttaaa tttattagtt aaaattaaac cttatt

```

L2 ANSWER 130 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV321727 GenBank (R)
GenBank ACC. NO. (GBN): AV321727
GenBank VERSION (VER): AV321727.1 GI:6291562
CAS REGISTRY NO. (RN): 247815-00-5
SEQUENCE LENGTH (SQL): 253
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 9 Nov 1999
DEFINITION (DEF): AV321727 RIKEN full-length enriched, 13 days embryo
male testis Mus musculus cDNA clone 6030436014 3'
similar to AF076619 Rattus norvegicus molecular adapter
rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE:
ORGANISM (ORGN): house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 84 a 46 c 45 g 78 t

COMMENT:

Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/
Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y.,
Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki
, Y.
Transcriptional sequencing: A method for DNA sequencing using RNA

polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
 Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J.,
 Tomaru,Y., Carninci,P., Shibata,Y., Ozawa,Y., Muramatsu,M., Okazaki,
 Y. and Hayashizaki,Y.
 Automated filtration-based high-throughput plasmid preparation
 system. Genome Res. 9 (5), 463-470 (1999)
 Carninci,P. and Hayashizaki,Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303,
 19-44 (1999)
 Please visit our web site (<http://genome.rtc.riken.go.jp>) for
 further details.

REFERENCE: 1 (bases 1 to 253)
 AUTHOR (AU): Konno,H.; Aizawa,K.; Akahira,S.; Akiyama,J.;
 Carninci,P.; Endo,T.; Fukuda,S.; Fukunishi,Y.; Hara,A.;
 Hayatsu,N.; Hirozane,T.; Hori,F.; Ishii,Y.;
 Ishikawa,T.; Itoh,M.; Izawa,M.; Kadota,K.; Kagawa,I.;
 Kai,C.?; Kawai,J.; Kikuchi,N.; Kojima,Y.; Koya,S.;
 Kusakabe,M.; Matsuyama,T.; Miki,R.; Mizuno,Y.;
 Nakamura,M.; Oda,H.; Okazaki,Y.; Owa,C.; Ozawa,Y.;
 Saito,H.; Sano,M.; Sato,K.; Shibata,K.; Shibata,Y. ;
 Shigemoto,Y.; Shiraki,T.; Sogabe,Y.; Sugahara,Y.;
 Suzuki,H.; Suzuki,H.; Takahashi,F.; Tatenno,M.;
 Tominaga,N.; Tsunoda,Y.; Watahiki,A.; Watanabe,S.;
 Yamamura,T.; Yasunishi,A.; Yokota,T.; Yoshiki,A.;
 Yoshino,M.; Muramatsu,M.; Hayashizaki,Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno,H., et al. 1999)
 JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..253	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="6030436014" /clone-lib="RIKEN full-length enriched, 13 days embryo male testis" /sex="male" /tissue-type="testis" /dev-stage="13 days embryo" /lab-host="DH10B" /note="Site-1: SalI; Site-2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT TTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 5.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC CCCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

1 gcagccttac tgtgatcggc ttccctctttc cccaaactct cttttactcc tttatctaca

61 gtagaagcag gttgcaagcg agaattgatta gagagtgaga gtagagattac caggctgata
 121 acaattcatg gtgaaaagaa gattttcacct gcgggttaca aaaaaaataa ggtagacacat
 181 tgcaaattag tgaaaacttg gatttcctatt acattcatga ctttaaattt attagttaaa
 241 attaaacctt att

L2 ANSWER 131 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AV259119 GenBank (R)
 GenBank ACC. NO. (GBN): AV259119
 GenBank VERSION (VER): AV259119.1 GI:6246578
 CAS REGISTRY NO. (RN): 246989-25-3
 SEQUENCE LENGTH (SQL): 230
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 4 Nov 1999
 DEFINITION (DEF): AV259119 RIKEN full-length enriched, adult male testis (DH10B) Mus musculus cDNA clone 4930403H14 3' similar to AF076619 Rattus norvegicus molecular adapter rGrb14 (***Grb14***) mRNA, mRNA sequence.

SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 103 a 27 c 34 g 66 t

COMMENT:

Contact: Yoshihide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/
 Sasaki, N., Izawa, M., Watahiki, M., Ozawa, K., Tanaka, T., Yoneda, Y., Matsuura, S., Carninci, P., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Transcriptional sequencing: A method for DNA sequencing using RNA polymerase. Proc. Natl. Acad. Sci. U.S.A. 95 (7), 3455-3460 (1998)
 Itoh, M., Kitsunai, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y. and Hayashizaki, Y.
 Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
 Carninci, P. and Hayashizaki, Y.
 High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
 Please visit our web site (http://genome.rtc.riken.go.jp) for further details.

REFERENCE: 1 (bases 1 to 230)
 AUTHOR (AU): Konno, H.; Aizawa, K.; Akahira, S.; Akiyama, J.; Carninci, P.; Endo, T.; Fukuda, S.; Fukunishi, Y.; Hara, A.; Hayatsu, N.; Hirozane, T.; Hori, F.; Ishii, Y.; Ishikawa, T.; Itoh, M.; Izawa, M.; Kadota, K.; Kagawa, I.; Kai, C. ?; Kawai, J.; Kikuchi, N.; Kojima, Y.; Koya, S.; Kusakabe, M.; Matsuyama, T.; Miki, R.; Mizuno, Y.; Nakamura, M.; Oda, H.; Okazaki, Y.; Owa, C.; Ozawa, Y.; Saito, H.; Sano, M.; Sato, K.; Shibata, K.; Shibata, Y.; Shigemoto, Y.; Shiraki, T.; Sogabe, Y.; Sugahara, Y.; Suzuki, H.; Suzuki, H.; Takahashi, F.; Tateno, M.; Tominaga, N.; Tsunoda, Y.; Watahiki, A.; Watanabe, S.; Yamamura, T.; Yasunishi, A.; Yokota, T.; Yoshiki, A.; Yoshino, M.; Muramatsu, M.; Hayashizaki, Y.
 TITLE (TI): RIKEN Mouse ESTs (Konno, H., et al. 1999)
 JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..230	/organism="Mus musculus" /strain="C57BL/6J" /db-xref="taxon:10090" /clone="4930403H14" /clone-lib="RIKEN full-length enriched, adult male testis"

(DH10B)"
 /sex="male"
 /tissue-type="testis"
 /dev-stage="adult"
 /lab-host="DH10B"
 /note="Site-1: SalI; Site-2:
 BamHI; cDNA library was prepared
 and sequenced in Mouse Genome
 Encyclopedia Project of Genome
 Exploration Research Group in
 Riken Genomic Sciences Center and
 Genome Science Laboratory in
 RIKEN. Division of Experimental
 Animal Research in Riken
 contributed to prepare mouse
 tissues. 1st strand cDNA was
 primed with a primer [5'
 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTT
 TTTTTTVN 3'], cDNA was prepared
 by using trehalose
 thermo-activated reverse
 transcriptase and subsequently
 enriched for full-length by
 cap-trapper. Second strand cDNA
 was prepared with the primer
 adapter of sequence [5'
 GAGAGAGAGATTCTCGAGTTAATTAAATTAATCC
 CCCCCCCCCC 3']. cDNA was cloned
 into the XhoI and BamHI sites.
 Vector: a modified pBluescript
 KS(+) after bulk excision from
 Lambda FLC I. Cloning sites, 5'
 end: SalI; 3' end: BamHI."

SEQUENCE (SEQ):

```

1 atgttcttat ctaaacttct taatttaata cactaaagaa gaagaatgaa acaaagaaga
61 aagatcagag agagagagaa atattacaag gttgaaaaca aatcttggtg aaaagaagat
121 ttaacctgcg ggttacaaaa aaaaatagtt cacacattgc aaattagtga aaacttggat
181 tcctattaca atcatgactt taaatttatt agttaaaatt aaaccttatt

```

L2 ANSWER 132 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF190121 GenBank (R)
 GenBank ACC. NO. (GBN): AF190121
 GenBank VERSION (VER): AF190121.1 GI:6018121
 CAS REGISTRY NO. (RN): 244113-77-7
 SEQUENCE LENGTH (SQL): 2052
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Rodents
 DATE (DATE): 22 Nov 2000
 DEFINITION (DEF): Rattus norvegicus growth factor receptor binding
 protein GRB7 (Grb7) mRNA, complete cds.
 SOURCE: Norway rat.
 ORGANISM (ORGN): Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Rattus
 NUCLEIC ACID COUNT (NA): 440 a 602 c 548 g 462 t
 REFERENCE: 1 (bases 1 to 2052)
 AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Auzan,C.; Clauser,E.;
 Van Obberghen,E.; Mauvais-Jarvis,F.; Girard,J.;
 Burnol,A.F.
 TITLE (TI): Identification of the rat adapter ***Grb14*** as an
 inhibitor of insulin actions
 JOURNAL (SO): J. Biol. Chem., 273 (40), 26026-26035 (1998)
 OTHER SOURCE (OS): CA 130:20710
 REFERENCE: 2 (bases 1 to 2052)
 AUTHOR (AU): Kasus-Jacobi,A.; Bereziat,V.; Perdereau,D.; Girard,J.;
 Burnol,A.F.
 TITLE (TI): Evidence for an interaction between the insulin
 receptor and Grb7. A role for two of its binding
 domains, PIR and SH2
 JOURNAL (SO): Oncogene, 19 (16), 2052-2059 (2000)
 OTHER SOURCE (OS): CA 133:69252
 REFERENCE: 3 (bases 1 to 2052)
 AUTHOR (AU): Burnol,A.F.; Perdereau,D.; Kasus-Jacobi,A.

TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (27-SEP-1999) UPR 1524, CNRS, 9 rue Jules
Hetzel, Meudon 92190, France

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2052	/organism="Rattus norvegicus" /db-xref="taxon:10116" /tissue-type="liver"
gene	1..2052	/gene="Grb7"
CDS	50..1657	/gene="Grb7" /note="molecular adapter" /codon-start=1 /product="growth factor receptor binding protein GRB7" /protein-id="AAF01776.1" /db-xref="GI:6018122" /translation="MELDLSPSHLSSSPEDVCPT PGTPPETPPPPDNPPPGDVKRSQP LPIPSSRKLREEEFQATSLPSIPNPFPELCSPPS QKPILGGSSGARGLLPRDSSRLCV VKVYSEDGACRSVEVAAGATARHVCEMLVQRAHA LSDENWGLVECHPYLALERGLEDH ESVVEVQEAWPVGDSRFIFRKNFAKYELFKSP HTLFPEKMVSSCLDTPTGISHEDL IQNFLNAGSFPEIQGFLQLRGSGRSGRKLWKRF FCFLRRSGLYYSTKGTSKDPRHLQ YVADINESNVYVVTQGRKLYGIPTDFGFCVKPNK LRNGHKGLHIFCSEDEQSRTCWLS AFRLFKYGVQLYKNYQQAQRHLRLSYLGSPLR SVSDNTLVAMDFSGHAGRVNIENPQ EALSAATEEAQAWRKKTNHRLSLPTPCSGLSLSA AIHRTQPWFHGRISREESQRLIGQ QGLVDGVFLVRESQRNPQGFVLSLCHLQKVKH YLLPSEDEGCLYFSMDDGQTRFTDL LQLVEFHQLNRGILPCLLRHCCARVAL"

SEQUENCE (SEQ):

1	ctttgggtcc	cggtgtcccc	ctccttctgc	tggagttcct	ccaggtgcca	tggaactgga
61	tctgagcccc	tctcatctca	gcagctcccc	agaagatgtg	tgcccaactc	ctgggacccc
121	tcccagagact	cctccgcccc	cggataaacc	tccgcccggc	gatgtgaagc	gggtctcagcc
181	tttgcccacat	ccaagtagca	ggaaacttcg	agaagaggag	tttcaggcaa	cctctctacc
241	ctccatcccc	aacccttcc	ccgagctctg	cagcccacct	tcacagaaac	ccattcttgg
301	tggttcctcc	ggtgctaggg	ggttgcttcc	tcgagactcc	agccgcctct	gtgtggtgaa
361	ggtgtacagt	gaagatggag	cctgccggtc	tgtggaagtg	gcggcaggcg	cgacggctcg
421	ccatgtgtgt	gagatgctgg	tcagcgcgagc	tcacgccctg	agcgatgaga	actggggcct
481	ggtggagtg	cacccttatt	tggctctgga	gcgggggtttg	gaggaccatg	agtctgtggt
541	agaagtgag	gaggcctggc	ctgtgggtgg	agacagccgc	ttcatcttcc	gtaaaaactt
601	cgccaagtat	gaactcttca	agagccctcc	gcacaccctg	ttcccagaaa	agatggtttc
661	cagctgtctg	gatacaccaa	caggcatatc	ccatgaagac	ctcatccaga	acttcctgaa
721	tgctggcagc	ttccctgaga	tccagggctt	cctgcagctt	cggggatcag	gccgggggtc
781	aggtcgaaag	ctttggaaac	gattcttctg	cttcctgcgt	cggctctggc	tctattactc
841	gaccaagggc	acctctaagg	acccgagaca	cctacagtac	gtggcagata	taaatgagtc
901	caatgtgtat	gtggtgaccc	agggccgcaa	gctgtatggg	ataccacccg	acttcggctt
961	ttgtgtcaag	cccaacaagc	ttcgaaatgg	ccacaagggg	ctccacatct	tctgcagcga
1021	ggatgagcag	agtcggactt	gctggctgtc	cgccctcccg	ctcttcaagt	acgggggtaca
1081	gctatataag	aattatcagc	aggcccagtc	tcgtcacctg	cgcttatcgt	atttggggtc
1141	tccacccttg	aggagtgtct	cagataatac	cctgggtggc	atggacttct	ctggccatgc
1201	tgggcgtgtc	attgagaacc	cccaggaagc	tctgagtgtc	gccacagagg	aagcccaggc
1261	ctggaggaag	aagacaaacc	accgtctcag	cctgcccacc	ccgtgctccg	gcctgagcct
1321	cagtgcagct	atccatcgca	cccagccctg	ggttcattga	cgaatctccc	gggaggagag
1381	ccagcggcta	attggacagc	agggcctggg	ggatgggtga	ttcctgggtc	gggagagcca
1441	gcggaaccca	cagggcctcg	ttctgtctct	gtgccatctg	cagaaagtca	aacattatct
1501	catcttgcca	agcgaagatg	aaggctgcct	ttacttcagc	atggatgacg	gccagaccgc
1561	tttcacagac	ctgtctgagc	tggtggaatt	ccaccagctg	aaccgaggca	tcctgccctg
1621	cttgctgcgc	cactgctgtg	cccgtgtggc	cctctgaggc	cacacaagct	gttacagcca
1681	tgggctgtct	tatgcacctt	ctgtctccgt	cagtggaactc	ggtgcagatg	ggtgggatga
1741	taaacagatg	aagagctccc	cccacttttc	tcccactttt	tttttttacc	tccctcaggt
1801	aatgaaacat	ccccagccc	tgttcatccc	tgactcctgt	ccccaaagga	ggcattgtgg
1861	tcctctcccc	ttggtagagc	tcctgaggca	gtgaagggca	ttatgagagg	agtaggggca
1921	gcccgggtgg	tctcatgccc	caccacact	ctgtacagac	tgagaggcca	gttgatctgc
1981	tctgttttat	accagtgata	ataaagatta	ttttttgata	caaaaaaaaa	aaaaaaaaaa
2041	aaaaaaaaaa	aa				

LOCUS (LOC): AI928176 GenBank (R)
 GenBank ACC. NO. (GBN): AI928176
 GenBank VERSION (VER): AI928176.1 GI:5664140
 CAS REGISTRY NO. (RN): 241373-88-6
 SEQUENCE LENGTH (SQL): 319
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 8 Mar 2000
 DEFINITION (DEF): wo95a09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
 IMAGE:2463064 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 90 a 54 c 48 g 127 t
 COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 399 Std Error: 0.00
 Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 319)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..319	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2463064" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):
 1 ttcctaaggt ttaattttta ctaatgaatt ttaaagtatg aatgtaaagt caatccaagt
 61 ctttgcttat ttgcaatgca caaactatatt ttttgtaact tgcagggtgaa atacattctt
 121 ttcacatgat aatgttttcg cccttatatta tggctcttta ttatttttct tgagtccttt
 181 tccttcaata gtttaataag tcacttctgg ctgtctaga gagcaatcct agcacaataa
 241 tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt
 301 agatctgtaa atcttgtgt

L2 ANSWER 134 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI870172 GenBank (R)
 GenBank ACC. NO. (GBN): AI870172

GenBank VERSION (VER): AI870172.1 GI:5544140
CAS REGISTRY NO. (RN): 390159-63-4
SEQUENCE LENGTH (SQL): 745
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 7 Mar 2000
DEFINITION (DEF): w115e05.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone
IMAGE:2424992 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 189 a 157 c 145 g 249 t 5 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1767 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 414.

REFERENCE: 1 (bases 1 to 745)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..745	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2424992" /clone-lib="NCI-CGAP-Ut1" /tissue-type="well-differentiated endometrial adenocarcinoma, 7 pooled tumors" /lab-host="DH10B" /note="Organ: uterus; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.75 kb. Life Technologies catalog #: 11538-014"

SEQUENCE (SEQ):

```
1  tcctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61  tttgcttatt tgcaatgcac aaactatttt tttgtaactt gcaggtgaaa tacattcttt
121 tcacatggta atgttttcgc cttattttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag tttaaataag tcaccttctg ggcttgctta gagagcaatc ctagcacaat
241 aatgtttcaa cttgcaagga agaacgccct tattgagttg atagaactcc accagctgta
301 ttagatctgt aaatctttgt tggccatcat ccagtgtgtg gaacatttca ccgtcatctt
361 ctactgggat aatttgaaag tgctttattt tttgtccatg actcattgac agtacgaaag
421 ttttgggggt actctgacta tcccgtacca agaaaactcc atccacaagt cttgtctgaa
481 taatcaatcg ctgagcctca tctctagaaa tnttgtggtg aaaccatggc tgggaccggg
541 ggatagccat gtntgtggca gagctctgtg aagagcagtg gggctaccgt gaggccccag
601 gcgtaaacad ctttttttnc tccaagcgag tccctcttca accgcaactg aaaggggctt
661 ccgtgggatn ttctaatact ctgcttttcc tgccctgaga agtcattgct accagggaaa
721 tctctgtnta cctcctcata ggtga
```

L2 ANSWER 135 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI767914 GenBank (R)
GenBank ACC. NO. (GBN): AI767914
GenBank VERSION (VER): AI767914.1 GI:5234435
CAS REGISTRY NO. (RN): 236629-01-9
SEQUENCE LENGTH (SQL): 429
MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 21 Dec 1999
 DEFINITION (DEF): wi99c10.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone
 IMAGE:2401458 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 112 a 74 c 74 g 168 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 925 Std Error: 0.00
 Seq primer: -40UP from Gibco
 High quality sequence stop: 260.

REFERENCE: 1 (bases 1 to 429)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..429	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2401458" /clone-lib="NCI-CGAP-Kid12" /tissue-type="2 pooled tumors (clear cell type)" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1323912-1325831, 1471368-1472903 and 1492104-1493255). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 ttttcctaag gtttaatttt aactaatgaa ttttaaata tgaatgtaaa gtcaatccaa
61 gtctttgctt atttgcaatg cacaaactat tttttgttaa cttgcagggtg aaatacatcc
121 ttttcacatg ataattgttt cgcccttatt tatggctctt tattatcttt cttgagtcct
181 tttccttcaa tagtttaata agtcacttct ggcttgtcta gagagcaatc ctagcacaa
241 aatgtttcaa cttgcaagga agaacgccct tattgagttg atagaactcc accagctggt
301 ttagatctgt aattttgggg tggccatatt caggtgtgtg gaacatttca ccgtcatctt
361 ctactggtat aattggaaaa gtgctttatt ntittgtcca tgactcttgg accgtaccaa
421 agttttggg
  
```

L2 ANSWER 136 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI760945 GenBank (R)
 GenBank ACC. NO. (GBN): AI760945
 GenBank VERSION (VER): AI760945.1 GI:5176612
 CAS REGISTRY NO. (RN): 236076-02-1

SEQUENCE LENGTH (SQL): 312
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 21 Dec 1999
 DEFINITION (DEF): wi70e05.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone
 IMAGE:2398688 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 90 a 54 c 46 g 122 t

COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 403 Std Error: 0.00
 Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 312)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..312	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2398688" /clone-lib="NCI-CGAP-Kid12" /tissue-type="2 pooled tumors (clear cell type)" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid5 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1323912-1325831, 1471368-1472903 and 1492104-1493255). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 tttcctaagg ttttaatttta actaatgaat tttaaattgat gaatgtaaag tcaatccaag
61 tcttttgctta ttgcaatgc acaactatt tttttgtaac ttgcagggtga aatacattct
121 tttcacatga taacgttttc gcccttattt atggtctttt attatttttc ttgagtcctt
181 ttccttcaat agtttaataa gtcacttctg gctttgtctag agagcaatcc tagcacaata
241 atgtttcaac ttgcaaggaa gaacgccctt attgagttga tagaactcca ccagctgtat
301 tagactctgta aa
```

L2 ANSWER 137 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI695260 GenBank (R)
 GenBank ACC. NO. (GBN): AI695260
 GenBank VERSION (VER): AI695260.1 GI:4983160
 CAS REGISTRY NO. (RN): 233989-40-7
 SEQUENCE LENGTH (SQL): 408

MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 16 Dec 1999
 DEFINITION (DEF): wa02b08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
 IMAGE:2296887 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 112 a 82 c 62 g 152 t
 COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 848 Std Error: 0.00
 Seq primer: -40UP from Gibco
 High quality sequence stop: 396.

REFERENCE: 1 (bases 1 to 408)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..408	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2296887" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 tcctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 tttgcttatt tgcaatgcac aaactatttt ttgttaactt gcaggtgaaa tacattcttt
121 tcacatgata atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag ttttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttca
361 cccatccaca agtccttgct gaataatcaa tcgctgagcc tcattctta

```

L2 ANSWER 138 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI671320 GenBank (R)
 GenBank ACC. NO. (GBN): AI671320
 GenBank VERSION (VER): AI671320.1 GI:4851051
 CAS REGISTRY NO. (RN): 232699-27-3
 SEQUENCE LENGTH (SQL): 497
 MOLECULE TYPE (CI): mRNA; linear

DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 17 Dec 1999
 DEFINITION (DEF): wc29a02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
 IMAGE:2316554 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 144 a 100 c 87 g 164 t 2 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 795 Std Error: 0.00
 Seq primer: -40UP from Gibco
 High quality sequence stop: 372.

REFERENCE: 1 (bases 1 to 497)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..497	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2316554" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1 gcctgccagt gacacataaa tatcactatt gccaaattcg ctaaaaactg caaatgccgc
61 gggttcctttg atgttccttt agtagaaaaa tataaaccag atcttcttag aaaaaagtaa
121 atttttttcc aagacttctt tcctgttctt ttcgcatgta agaaaccatg aatttcagga
181 tatgtgcttg aactcagaaa catctgcaaa atctgtgtgg gggatatttc accattgggt
241 tcagttgcaa aagataccat atgctctgga aaaaaataca ttgggttttt aaagaactca
301 tatttgcat aattttttct aaagtatagt ttgttttctt cttctatccc ccagttggat
361 agcacttcaa tcaccagttc gtggtcttct attgttcttt ctacacctat gtgaggcagg
421 tgctcanaaa gggtccagct gtggtcatca atgtaatgat tcttcaggat caacagctga
481 ncaacatctc gagccgt
  
```

L2 ANSWER 139 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI624682 GenBank (R)
 GenBank ACC. NO. (GBN): AI624682
 GenBank VERSION (VER): AI624682.1 GI:4649613
 CAS REGISTRY NO. (RN): 230649-94-2
 SEQUENCE LENGTH (SQL): 533

MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 14 Dec 1999
 DEFINITION (DEF): ts43e12.x1 NCI_CGAP_Ut1 Homo sapiens cDNA clone
 IMAGE:2231374 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 144 a 104 c 91 g 193 t 1 others
 COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
 Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 1696 Std Error: 0.00
 Seq primer: -40UP from Gibco
 High quality sequence stop: 401
 POLYA=No.

REFERENCE: 1 (bases 1 to 533)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..533	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2231374" /clone-lib="NCI-CGAP-Ut1" /tissue-type="well-differentiated endometrial adenocarcinoma, 7 pooled tumors" /lab-host="DH10B" /note="Organ: uterus; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.75 kb. Life Technologies catalog #: 11538-014"

SEQUENCE (SEQ):

```

1 tcctaagggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 ttgtcttatt tgcaatgcac aaactatttt tttgtaactt gcagggtgaaa tacattcttt
121 tcacatggta atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag tttataaagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttcta
361 ctggtataat ttgaaagtgc tttatttttt gtccatgact cattgacagt acgaaagttt
421 tgggggttact ctgactatcc cgtaccaaga aaactccatc cacaagtcct tgctgaataa
481 tcaatcgctg agcctcatct ctagaaatnt tgtgtgaacc atggctggga ccg

```

L2 ANSWER 140 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI610228 GenBank (R)
 GenBank ACC. NO. (GBN): AI610228
 GenBank VERSION (VER): AI610228.1 GI:4619395
 CAS REGISTRY NO. (RN): 390132-63-5
 SEQUENCE LENGTH (SQL): 701
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 13 May 1999
 DEFINITION (DEF): tp15g09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone
 IMAGE:2187904 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: human.

ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 179 a 144 c 132 g 242 t 4 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 803 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 406
POLYA=No.

REFERENCE: 1 (bases 1 to 701)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..701	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2187904" /clone-lib="NCI-CGAP-Gas4" /tissue-type="poorly differentiated adenocarcinoma with signet ring cell features" /lab-host="DH10B" /note="Organ: stomach; Vector: pCMV-SPORT6; Site-1: SalI; Site-2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.69 kb. Life Technologies catalog #: 11549-011"

SEQUENCE (SEQ):

```
1 ttctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 tttgtcttatt tgcaatgcac aaactatctt tttgttaactt gcagggtgaaa tacattcctt
121 tcacatggta atgttttcgc ccttatcttat ggtcttttat tatttttctt gattcctttt
181 ccttcaatag tttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttcta
361 ctggtataat ttgaaagtgc tctatttttt gtccatgact cattgacagt acgaaagttt
421 tgggggttact ctgactatcc cgtaccaaaa aactccatcc acaagtcctt gctgaataat
481 caatcgctga gcctcatctc tagaaatttt gtggtgaaac catggctggg accggtggat
541 agccatggtt gtggcagagc tctgtgaaga gcagtggngc taccgtgagt gccagccgt
601 aaacatcctt ttttcttcc agcgagtcct tcttcaaccg caactgaaag ggcttcagnn
661 ggattttcta taactctgct tttctggcct gagaagtcca t
```

L2 ANSWER 141 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI609572 GenBank (R)
GenBank ACC. NO. (GBN): AI609572
GenBank VERSION (VER): AI609572.1 GI:4618739
CAS REGISTRY NO. (RN): 230319-99-0
SEQUENCE LENGTH (SQL): 368
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 14 May 1999
DEFINITION (DEF): tw28a08.x1 NCI_CGAP_Ov35 Homo sapiens cDNA clone
IMAGE:2260982 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE:
ORGANISM (ORGN): human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 100 a 59 c 57 g 151 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher A. Moskaluk, M.D., Ph.D., Michael
R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 318 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 324
POLYA=No.

REFERENCE: 1 (bases 1 to 368)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..368	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2260982" /clone-lib="NCI-CGAP-Ov35" /tissue-type="tumor, 5 pooled (see description)" /lab-host="DH10B" /note="Organ: ovary; Vector: pCMV-SPORT6; Site-1: Sali; Site-2: NotI; This library represents the normalized version of NCI-CGAP-Ov23. Cloned unidirectionally. Primer: oligo dT. Average insert size 0.86 kb. Tumor types include: mixed Mullerian tumor, papillary serous, clear cell, spindle cell. All are primary tumors, metastasis positive. Constructed by Life Technologies."

SEQUENCE (SEQ):

```
1 tttttttttt tttttttttt ttttttatgc atacacttct tggatttatt aatgctatag
61 ttctatgaaa tccatgagta aatatagaaa cattgaaatt ccttctctct ctttagagtt
121 ttcttggtac gggatagtc gagtaacccc aaaactttcg tactgtcaat gagtcagga
181 caaaaaataa agcactttca aattatacca gtaagtaatt cgtgatttca catttggtga
241 ttagaaatga ccttaatgct aagcttttga tcttaatgca taagcttttg gaaactttgg
301 ttttcttttg gnccttttat taaatataat ttggcagctt gtgctttgac tagagccccg
361 cgtccgcc
```

L2 ANSWER 142 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI522272 GenBank (R)
GenBank ACC. NO. (GBN): AI522272
GenBank VERSION (VER): AI522272.1 GI:4436407
CAS REGISTRY NO. (RN): 228602-27-5
SEQUENCE LENGTH (SQL): 604
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 13 Apr 1999
DEFINITION (DEF): ti84g01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
IMAGE:2138736 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE:
ORGANISM (ORGN): human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 160 a 118 c 118 g 208 t

COMMENT:

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 1380 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 308.

REFERENCE: 1 (bases 1 to 604)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..604	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2138736" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```

1  ttccctaaggt ttaatttttaa ctaatgaatt ttaaattgatg aatgtaaagt caatccaagt
61  ctttgcttat ttgcaatgca caaactattt ttttgtaact tgcagggtgaa atacattctt
121  ttacatgat aatgttttcg cccttattta tggcttttta ttatttttct tgagtccttt
181  tccttcaata gtttaataag tcacttctgg cttgtctaga gagcaatcct agcacaataa
241  tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt
301  agatctgtaa atcttgtgtg gccatcatcc agtgtgtgga acatttcacc gtcattctct
361  actggtataa tttgaaagtg ctttattttt tgtccatgac tcattgacag tacgaaagtt
421  ttgggggttac tctgactatc ccgtaccaag aaaactccat ccacaagtcc ttgctgaata
481  atcaatcgct gagcctcatc tctagaaatt ttgtggtgaa accatggctg ggaccggtgg
541  atagccatgt ttgtggcaaa gcttctggaa gaggcagggg ggctccggga gtgccagggc
601  gtaa

```

L2 ANSWER 143 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI505286 GenBank (R)
GenBank ACC. NO. (GBN): AI505286
GenBank VERSION (VER): AI505286.1 GI:4403137
CAS REGISTRY NO. (RN): 228210-72-8
SEQUENCE LENGTH (SQL): 578
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 11 Mar 1999
DEFINITION (DEF): vp98h08.x1 Stratagene mouse diaphragm (#937303) Mus
musculus cDNA clone IMAGE:1092831 3' similar to
TR:Q14449 Q14449 ***GRB14*** . ;, mRNA sequence.
SOURCE:
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 148 a 135 c 111 g 179 t 5 others

COMMENT:

Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:599063

This clone was previously sequenced on the 5' end only, this new
data is from the 3' end

High quality sequence stop: 379.

REFERENCE: 1 (bases 1 to 578)
AUTHOR (AU): Marra,M.; Hillier,L.; Kucaba,T.; Martin,J.; Beck,C.;
Wylie,T.; Underwood,K.; Steptoe,M.; Theising,B.;
Allen,M.; Bowers,Y.; Person,B.; Swaller,T.;
Gibbons,M.; Pape,D.; Harvey,N.; Schurk,R.; Ritter,E. ;
Kohn,S.; Shin,T.; Jackson,Y.; Cardenas,M.; McCann,R.;
Waterston,R.; Wilson,R.
TITLE (TI): The WashU-NCI Mouse EST Project 1999
JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..578	/organism="Mus musculus" /db-xref="taxon:10090" /clone="IMAGE:1092831" /clone-lib="Stratagene mouse diaphragm (#937303)" /tissue-type="diaphragm" /dev-stage="adult" /lab-host="SOLR (kanamycin resistant)" /note="Organ: diaphragm; Vector: pBluescript SK-; Site-1: EcoRI; Site-2: XhoI; Cloned unidirectionally from mRNA prepared from diaphragm muscle. Primer: oligo dT. Average insert size: 1.5 kb. Uni-ZAP XR Vector; ~5' adaptor sequence: 5' GAATTCGGCACGAG 3' ~3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT

SEQUENCE (SEQ):

```
1 aataaggttt aattttaact aataaattta aaggcatgag tgtaatagga atccaagttt
61 tcactaattt gcaatgtgtg acctattttt ttttgaacc cgcaggtgaa atcttctttt
121 caccatgggtt tgttttcagc cttgtgatct ctctctctct ctctaatacat tctcctttgc
181 atccttcttc ttctgtagtg taacgagtga cacacagttt ggctaaacag ccatacctagc
241 acagtaaatgc ttcagcttgc aaggaaggac cccctgtgtg agctggtaga actccaccag
301 ctggatgagg tctgtgaact tcgtatggcc atcatccaga gtatggaaca gctcaccatc
361 atcttctacg ggtataatnt gatagtgttt tatcttttgt ccatgactca ttgacagtac
421 aaaagttctg gggttactct gactatcccg taccaagaaa actncatcca caggccctcg
481 ccgaatgatc agncgctgag cctcatctct tgaaatnctg tggtgaaacc catgttggac
541 cgatggaaac catgttcaca ccanaactct ggaagggc
```

L2 ANSWER 144 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI494168 GenBank (R)
GenBank ACC. NO. (GBN): AI494168
GenBank VERSION (VER): AI494168.1 GI:4395171
CAS REGISTRY NO. (RN): 228132-01-2
SEQUENCE LENGTH (SQL): 368
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 13 Apr 1999
DEFINITION (DEF): ti14f01.y1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
IMAGE:2130457 5' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 98 a 71 c 58 g 141 t

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 416 Std Error: 0.00
Seq primer: -40RP from Gibco.

REFERENCE: 1 (bases 1 to 368)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..368	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2130457" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 tcctaaggtt taattttaac taatgaattt taaatgatga atgtaaagtc aatccaagtc
61 ttgtcttatt tgcaatgcac aaactatatt ttgttaactt gcaggtgaaa tacattcttt
121 tcacatgata atgttttcgc ccttatttat ggtcttttat tatttttctt gagtcctttt
181 ccttcaatag ttttaataagt cacttctggc ttgtctagag agcaatccta gcacaataat
241 gtttcaactt gcaaggaaga acgcccttat tgagttgata gaactccacc agctgtatta
301 gatctgtaaa tcttgtgtgg ccatcatcca gtgtgtggaa catttcaccg tcattcttctc
361 ctcgtgcc
```

L2 ANSWER 145 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI425417 GenBank (R)
GenBank ACC. NO. (GBN): AI425417
GenBank VERSION (VER): AI425417.1 GI:4271348
CAS REGISTRY NO. (RN): 226504-01-4
SEQUENCE LENGTH (SQL): 503
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 15 Mar 2000
DEFINITION (DEF): my18a09.y1 Barstead mouse heart MPLRB3 Mus musculus
cDNA clone IMAGE:696184 5' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.
SOURCE: house mouse.
ORGANISM (ORGN): Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Mus

NUCLEIC ACID COUNT (NA): 103 a 171 c 143 g 86 t

COMMENT:

Contact: Marra M/WashU-NCI Mouse EST Project 1999
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
This read is a RESEQUENCE of a previously sequenced mouse clone
This read has been verified (found to hit its original self in the
correct orientation)
MGI:429744
Seq primer: -40RP from Gibco
High quality sequence stop: 493
POLYA=No.

REFERENCE: 1 (bases 1 to 503)
AUTHOR (AU): Marra,M.; Hillier,L.; Kucaba,T.; Martin,J.; Beck,C.;
Wylie,T.; Underwood,K.; Steptoe,M.; Theising,B.;
Allen,M.; Bowers,Y.; Person,B. ; Swaller,T.;
Gibbons,M.; Pape,D.; Harvey,N.; Schurk,R.; Ritter,E. ;
Kohn,S.; Shin,T.; Jackson,Y.; Cardenas,M.; McCann,R.;
Waterston,R.; Wilson,R.
TITLE (TI): The WashU-NCI Mouse EST Project 1999
JOURNAL (SO): Unpublished (1999)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /strain="BALB/c" /db-xref="taxon:10090" /clone="IMAGE:696184" /clone-lib="Barstead mouse heart MPLRB3" /sex="mixed" /tissue-type="heart" /dev-stage="6 weeks" /lab-host="DH10B" /note="Organ: heart; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: EcoRI; Site-2: NotI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTTACGAATCTGAAGTGGGAGCGGCCGCCCTTT TTTTTTTTTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Eco RI adaptors [CTTGGATTGGTACC], digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library constructed by Bob Barstead."

SEQUENCE (SEQ):

```
1 aattcggatc caaggcaagg cgctcgctgc ctgcaaccgc tcggctctgc tcgccccag
61 cccttcgtag ctttcgcctc gcggtcgatg actccctaga cccctggcct acgaccatga
121 ccacgtccct gcaagacggg cagagcgccg cgggccgggc aggcgcccag gattcgccgc
181 tggcagtgca ggtgtgccgc gttgcccagg gcaagggaga cgcccaggac ccggcgccag
241 tccccggact gcacgcgctg tccccgcct ccgatgcgac cctccgcggt gccatagaca
301 ggagaaaaat gaaagatctg gatgttctgg aaaagccacc cattcccaac ccctttcctg
361 agctctgctg ctctccgctt acatctgtgc tgtcagcagg cctgtttccc agggccaatt
421 caaggaagaa gcaggtgatt aaagttaca gcgaggatga aaccagcaga gcattagagg
481 tgcccagtgca catcacagcc cga
```

L2 ANSWER 146 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI383743 GenBank (R)
GenBank ACC. NO. (GBN): AI383743
GenBank VERSION (VER): AI383743.1 GI:4196524
CAS REGISTRY NO. (RN): 225333-52-8
SEQUENCE LENGTH (SQL): 423
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag

DATE (DATE): 18 Mar 1999
DEFINITION (DEF): tc47e05.x1 Soares_total_fetus_Nb2HF8_9w Homo sapiens
cDNA clone IMAGE:2067776 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 116 a 74 c 69 g 162 t 2 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 967 Std Error: 0.00
Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 423)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..423	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2067776" /clone-lib="Soares-total-fetus-Nb2 HF8-9w" /dev-stage="8-9 weeks" /lab-host="DH10B" /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; 1st strand cDNA was prepared from mRNA obtained from pooled 8-9 week (total) fetus material with a Not I - oligo(dT) primer [5' TGTTACCAATCTGAAGTGGGAGCGGCCGCTTAAT TTTTTTTTTTTTTTTT 3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 cctaagggttt aattttaact aatgaatttt aaatgatgaa tgtaaagtca atccaagtct
61 ttgcttatttt gcaatgcaca aactattttt ttgtaacttg caggtgaaat acattctttt
121 cacatgataa cgttttcgcc cttattttatg gtcttttatt atttttcttg agtccttttc
181 cttcaatagt ttaataagtc acttctggct tgtctagaga gcaatcctag cacaataatg
241 tttcaacttg caaggaagaa cgcccttatt gaggtagatag aactccacca gctgtattag
301 atctgtaaat cttgtgtggc catcatccag tgtgtggaac atttcaccgt catcttctac
361 tgggtataatt ngaaagtgtc ttattntttt gtcattgactc attgacagta caaaagtgtt
421 ggg
```

L2 ANSWER 147 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI364971 GenBank (R)
GenBank ACC. NO. (GBN): AI364971
GenBank VERSION (VER): AI364971.1 GI:4124660
CAS REGISTRY NO. (RN): 224494-55-7
SEQUENCE LENGTH (SQL): 318
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 16 Feb 1999
DEFINITION (DEF): qz41h03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
IMAGE:2029493 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 90 a 54 c 48 g 125 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 447 Std Error: 0.00
Seq primer: -40UP from Gibco.

REFERENCE: 1 (bases 1 to 318)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..318	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2029493" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

SEQUENCE (SEQ):

```
1 ttcctaaggt ttaattttta ctaatgaatt ttaaattgatg aatgtaaagt caatccaagt
61 ctttgcttat ttgcaatgca caaactattt ttttgtaact tgcagggtgaa atacattctt
121 ttcacatgat aatgttttcg cccttattta tggnccttta ttatttttct tgagtccttt
181 tccttcaata gtttaataag tcacttctgg cttgtctaga gagcaatcct agcacaataa
241 tgtttcaact tgcaaggaag aacgccctta ttgagttgat agaactccac cagctgtatt
301 agatctgtaa atcttgtg
```

L2 ANSWER 148 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI263214 GenBank (R)
GenBank ACC. NO. (GBN): AI263214
GenBank VERSION (VER): AI263214.1 GI:3871417
CAS REGISTRY NO. (RN): 221598-25-0
SEQUENCE LENGTH (SQL): 382
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 3 Feb 1999
DEFINITION (DEF): qz36f04.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone
IMAGE:2028991 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.

SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo

NUCLEIC ACID COUNT (NA): 112 a 59 c 56 g 154 t 1 others

COMMENT:

Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 730 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 381.

REFERENCE: 1 (bases 1 to 382)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..382	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:2028991" /clone-lib="NCI-CGAP-Kid11" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP-Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo. "

SEQUENCE (SEQ):

```
1 tttttttttt tttttttttt cctaagggtt aattttaact aatgaatttt aaatgatgaa
61 tgtaaagtca atccaagtct ttgcttattt gcaatgcaca aactattttt ttgtaacttg
121 caggggaaat acattctttt cacatgataa tgttttcgcc cttatttatg gtcttttatt
181 atttttcttg agtccttttc cttcaatagt ttaataagtc acttctggct tgtctagaga
241 gcaatcctag cacaataatg tttcaacttg caaggaaaaa cgcccttatt gagttgatag
301 aactcacaca cagccctt ttggggtttta attttttaaa aggaaaaatt tcccggttgg
361 gggtttttaa aaaaaaaaaa aa
```

L2 ANSWER 149 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AF076619 GenBank (R)
GenBank ACC. NO. (GBN): AF076619
GenBank VERSION (VER): AF076619.1 GI:3650499
CAS REGISTRY NO. (RN): 216295-93-1
SEQUENCE LENGTH (SQL): 1950
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Rodents
DATE (DATE): 26 Sep 1998
DEFINITION (DEF): Rattus norvegicus molecular adapter rGrb14 (
Grb14) mRNA, complete cds.
SOURCE: Norway rat.
ORGANISM (ORGN): Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Rodentia;
Sciurognathi; Muridae; Murinae; Rattus

NUCLEIC ACID COUNT (NA): 546 a 460 c 500 g 444 t
REFERENCE: 1 (bases 1 to 1950)
AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Auzan,C.; Clauser,E.;
Van Obberghen,E.; Mauvais-Jarvis,F.; Girard,J.;
Burnol,A.F.
TITLE (TI): Identification of the rat adapter ***Grb14*** as an
inhibitor of insulin actions
JOURNAL (SO): J. Biol. Chem., 273 (40), 26026-26035 (1998)
OTHER SOURCE (OS): CA 130:20710
REFERENCE: 2 (bases 1 to 1950)
AUTHOR (AU): Kasus-Jacobi,A.; Perdereau,D.; Burnol,A.-F.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (03-JUL-1998) UPR 1524, CNRS, 9 rue Jules
Hetzel, Meudon 92190, France

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..1950	/organism="Rattus norvegicus" /strain="Wistar" /db-xref="taxon:10116"
gene	1..1950	/gene="Grb14"
CDS	70..1686	/gene="Grb14" /note="signal transduction protein; Grb7 family member; binds the insulin receptor" /codon-start=1 /product="molecular adapter rGrb14" /protein-id="AAC61478.1" /db-xref="GI:3650500" /translation="MTTSLQDGQSAAGRAGAQDS PLAVQVCRVAQKGKGAQDPAQVPG LHALSPASDATRRGAMDRRKAKDLEVQETPSIPN PFPELCCSPLTSVLSAGLFPRSNS RKKQVIKVYSEDETSRALEVPSDVTARDVCQLLI LKNHYVDDNSWTLFEHLSHTGVER TVEDHELLTEVLSHWMEEDNKLYLRKNYAKYEF FKNPMYFFPEHMFVSFATEMNGDRS LTQIPQVFLSSNTYPEIHGFLHAKEQGKKSWKKA YFFLRRSGLYFSTKGTSKEPRHLQ FFSEFSTSNVYMSLAGKKKHGAPTPYGFCFKPTK AGGPRDLKMLCAEEDQSRMCWVTA IRLLKYGMLQYQNYMHPSQARSACSSQSVSPMRS VSENSLVAMDFSGQKTRVIDNPTE ALSVAVEEGLAWRKKGCLRLGNHGSPTAPSQSSA VNMALHRSQPWFHHRISRDEAQQQL ITRQGPVDGVFLVRDSQSNPRTFVLMSHGQKIK HFQIIPVEDDGEVFHTLDDGHTKF TDLIQLVEFYQLNKGVLPCCLKHYCARMV"

SEQUENCE (SEQ):

```

1 gctggacccc agcctttctt cgctttcgcc tcgcggtcga tgactcccta gacccccctgg
61 cctacgatca tgaccacgtc cctgcaagat gggcagagcg ccgcgggccg ggcggggcgcc
121 caggactccc cgctggcagt gcaggtgtgc cgcttgccc agggcaaggg agacgcccag
181 gacccggctc aggtccccgg actgcacgcg ctgtccccgg cctcagatgc gacccgccgc
241 ggtgccatgg acaggagaaa agcgaagatg ctggaagtgc aggaaacgcc ttccattcct
301 aaccccttcc ctgagctctg ctgttctcca cttacatcgg tgctgtcagc aggcctcttc
361 cccagatcaa attcaaggaa gaaacaggtg attaaagtgt acagcgagga tgagaccagc
421 agagcgtagg aggtgcccag tgacgtcaca gcccgtgatg tctgccagct gttgatcctg
481 aagaaccact atgtcgacga caatagctgg accctttttg agcacctgtc tcacacaggc
541 gtagaaagga cagtggagga ccatgagctg ctgactgaag tgctgtctca ttgggtgatg
601 gaagaagata ataagctgta tcttagaaa aattatgcca aatatgaatt ttttaagaac
661 ccaatgtatt tctttccaga gcacatggtg tcttttgcaa ctgaaatgaa cgggtgacaga
721 tcccttacac agatcccgcg ggtgttttta agctcaaaca catatcctga aatccatggc
781 ttcctgcatg caaaggaaca ggggaagaag tcttggaaaa aagcttactt ttttctcaga
841 agatctggtt tatatttttc tactaaaggc acatccaagg aaccacggca cttgcagttt
901 ttcagtgaat tcagcactag taatgtttac atgtcactgg caggcaaaaa aaagcatgga
961 gcgccgactc cctatggatt ctgctttaag cctaccaaag caggagggcc ccgggacctg
1021 aaaatgctgt gtgcagaaga agaccaaagc aggatgtgct ggggtgaccgc cattagattg
1081 ctcaagtatg gcatgcagct ctaccagaat tatatgcata catccaagc tagaagcgcc
1141 tgcagttctc agagcgtatc acccatgaga agcgtatcag agaattccct agtagcaatg
1201 gacttctcag gtcagaagac cagagtcata gacaaccccc ctgaagccct ttcggttgcc
1261 gtttaggaag gactcgcttg gaggaaaaaa gcctggggaa tcatgggagt
1321 cccactgcgc cctctcagag ctctgctgtg aacatggctc tccaccggtc ccagccatgg
1381 tttcaccaca gaatttctag agatgaagct cagcagttga ttaccgggca ggggcctgtg

```

```

1441 gatggagttt tcttggtagc ggatagtcag agtaacccca gaacttttgt actgtcaatg
1501 agtcacggac aaaagataaa acactttcaa attatacccg tggaagatga tggtagggtg
1561 ttccacaccc tggatgatgg ccatacgaag ttcacagatc tcatccagct cgtggagttc
1621 taccagctca acaagggggg ccttccttgc aagctgaagc attactgtgc taggatggct
1681 gtttagccaa actgtctgtg actcgttaaa ctatggaaga tggaggatgc aaagaagaat
1741 gattagagag agagagagag agagagagag agagagagag agagagagag agagaggaga
1801 tcacaaggct ggaaacaaat catgggtgaaa agaagattca cctgtgggtt acaaaaaaat
1861 aggtcacgta ttgcaaatta gtgaagactt ggattcgtat tactctcgtt actttaaat
1921 tattagttaa aattaaacct tattaataaa

```

L2 ANSWER 150 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AI094433 GenBank (R)
 GenBank ACC. NO. (GBN): AI094433
 GenBank VERSION (VER): AI094433.1 GI:3433409
 CAS REGISTRY NO. (RN): 392191-42-3
 SEQUENCE LENGTH (SQL): 420
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 10 Nov 1998
 DEFINITION (DEF): ou87b07.s1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens
 cDNA clone IMAGE:1634773 3' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.

SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo

NUCLEIC ACID COUNT (NA): 115 a 75 c 67 g 163 t

COMMENT:

Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 796 Std Error: 0.00
 Seq primer: -40m13 fwd. ET from Amersham
 High quality sequence stop: 277.

REFERENCE: 1 (bases 1 to 420)
 AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
 Project (CGAP), Tumor Gene Index
 JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..420	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:1634773" /clone-lib="Soares-NSF-F8-9W-OT-PA-P-S1" /lab-host="DH10B" /note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; Equal amounts of plasmid DNA from five normalized libraries were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 5 libraries. The pools consisted of the following libraries and cloneIDs: Soares NbHSF pool 1: 309384-310919, 323208-325895 Soares Nb2HP pool 1: 145032-147335, 147720-148103, 148872-149255, 15002 - 150407, 151176-152327 Soares Nb2HF8-9W pool 1: 758280-760583, 772104-774407 Soares NbHPA pool 1: 304776-306311, 320136-322823,

326280-326663 Soares NbHOT pool 1:
723720-726407, 739080-740999
Subtraction by Bento Soares and M.
Fatima Bonaldo."

SEQUENCE (SEQ):

```
1 cctaaggttt aattttaact aatgaatttt aaatgatgaa tgtaaagtca atccaagtct
61 ttgcttattt gcaatgcaca aactattttt ttgtaacttg caggtgaaat acattctttt
121 cacatgataa cgttttcgcc cttattttatg gtcttttatt atttttcttg agtccttttc
181 cttcaatagt ttaataagtc acttctggct tgtctagaga gcaatcctag cacaataatg
241 tttcaacttg caaggaagaa cgcccttatt gagttgatag aactccacca gctgtattag
301 atctgtaaat cttgtgtggc catcatccag tgtgtggaac atttcaccgt catcttctac
361 tggтатаatt tgaaagtgct ttattttttg tccatgactc attgacagta cgaaagtttt
```

L2 ANSWER 151 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AA917917 GenBank (R)
GenBank ACC. NO. (GBN): AA917917
GenBank VERSION (VER): AA917917.1 GI:3057807
CAS REGISTRY NO. (RN): 206814-02-0
SEQUENCE LENGTH (SQL): 497
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Expressed sequence tag
DATE (DATE): 10 Jun 1998
DEFINITION (DEF): o176g09.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone
IMAGE:1535584 3' similar to TR:Q14449 Q14449
GRB14 . ;, mRNA sequence.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 136 a 95 c 79 g 187 t
COMMENT:
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert Length: 664 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 440.
REFERENCE: 1 (bases 1 to 497)
AUTHOR (AU): NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE (TI): National Cancer Institute, Cancer Genome Anatomy
Project (CGAP), Tumor Gene Index
JOURNAL (SO): Unpublished (1997)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..497	/organism="Homo sapiens" /db-xref="taxon:9606" /clone="IMAGE:1535584" /clone-lib="NCI-CGAP-Kid3" /lab-host="DH10B" /note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site-1: Not I; Site-2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima

SEQUENCE (SEQ):

```

1 cttttttttt ctaaggttta attttaacta atgaatttta aatgatgaat gtaaagtcaa
61 tccaagtctt tgcttatttg caatgcacaa actatttttt tgtaacttgc aggtgaaata
121 cattcttttc acatgataat gttttcgccc ttatttatgg tcttttatta tttttcttga
181 gtcctttttc ttcaatagtt taataagtca cttctggcct gtctagagag caatcctagc
241 acaataatgt ttcaacttgc aaggaagaac gcccttattg agttgataga actccaccag
301 ctgtattaga tctgtaaatt ttgtgtggcc atcatccagt gtgtggaaca tttcaccgtc
361 atcttctact ggtataatth gaaagtgcct tattttctgt ccatgactca ttgacagtac
421 gaaagttttg gggttactct gactatcccg taccaagaaa actcatccac aagtccttgc
481 tgaataatca atcgctg

```

L2 ANSWER 152 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): AA684351 GenBank (R)
 GenBank ACC. NO. (GBN): AA684351
 GenBank VERSION (VER): AA684351.1 GI:2670937
 CAS REGISTRY NO. (RN): 200792-61-6
 SEQUENCE LENGTH (SQL): 503
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Expressed sequence tag
 DATE (DATE): 9 Dec 1997
 DEFINITION (DEF): vm69d04.s1 Knowles Solter mouse 2 cell Mus musculus
 cDNA clone IMAGE:1003495 5' similar to TR:Q14449 Q14449
 GRB14 . ;, mRNA sequence.
 SOURCE: house mouse.
 ORGANISM (ORGN): Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Rodentia;
 Sciurognathi; Muridae; Murinae; Mus
 NUCLEIC ACID COUNT (NA): 127 a 121 c 135 g 120 t
 COMMENT:

Contact: Marra M/Mouse EST Project
 WashU-HHMI Mouse EST Project
 Washington University School of MedicineP
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:567711
 Possible reversed clone: similarity on wrong strand
 High quality sequence stop: 459.

REFERENCE: 1 (bases 1 to 503)
 AUTHOR (AU): Marra,M.; Hillier,L.; Allen,M.; Bowles,M.; Dietrich,N.;
 Dubuque,T.; Geisel,S.; Kucaba,T.; Lacy,M.; Le,M.;
 Martin,J.; Morris,M.; Schellenberg,K.; Steptoe,M.;
 Tan,F.; Underwood,K.; Moore,B.; Theising,B.; Wylie,T.;
 Lennon,G.; Soares,B.; Wilson,R.; Waterston,R.
 TITLE (TI): The WashU-HHMI Mouse EST Project
 JOURNAL (SO): Unpublished (1996)

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..503	/organism="Mus musculus" /strain="B6D2 F1/J" /db-xref="taxon:10090" /clone="IMAGE:1003495" /clone-lib="Knowles Solter mouse 2 cell" /tissue-type="embryo" /dev-stage="2-cell" /lab-host="DH10B" /note="Organ: embryo; Vector: pBluescribe (modified); site-1: MluI; site-2: SalI; Cloned unidirectionally from mRNA prepared from 13,500 2-cell stage embryos. Primer: SalI(dT): 5'-CGGTCGACCGTCGACCGTTTTTTTTTTTTTTT T-3'. cDNAs were cloned into the MluI/SalI sites of a modified pBluescribe vector using

commercial linkers (NEB). Average
insert size: 1.2 kb."

SEQUENCE (SEQ):

```
1  ttccctagta gcaatggact tctcaggtga gaagagcaga gtcatagaca accccactga
61  agcgctttcg gttgctggtg aggaaggcct cgcgtggagg aaaaaaggct gtttacgcct
121 ggggaatcac ggaagcccca gtgccccctc ccagagctct gctgtgaaca tggctctcca
181 tcggtcccaa ccatggtttc accacagaat ttccagagat gaggctcagc ggctgatcat
241 tcggcagggg cctgtggatg gagttttctt ggtacgggat agtcagagta accccagaac
301 ttttgtactg tcaatgagtc atggacaaaa gataaaacac tatcaaatta tacccgtaga
361 agatgatggt gagctgttcc atactctgga tgatggccat acgaagtcca cagacctcat
421 ccagctggtg gagttctacc agtcaacag gggggtcctt ccttgcaagc tgaagcatta
481 ctgtgctagg atggctgttt agc
```

L2 ANSWER 153 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): HSU69276 GenBank (R)
GenBank ACC. NO. (GBN): U69276
GenBank VERSION (VER): U69276.1 GI:1546834
CAS REGISTRY NO. (RN): 181109-72-8
SEQUENCE LENGTH (SQL): 2504
MOLECULE TYPE (CI): mRNA; linear
DIVISION CODE (CI): Primates
DATE (DATE): 17 Sep 1996
DEFINITION (DEF): Human hGrbIRbeta/hGrb10 (GRBIRbeta/GRB10) mRNA,
complete cds.
SOURCE: human.
ORGANISM (ORGN): Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
Hominidae; Homo
NUCLEIC ACID COUNT (NA): 639 a 652 c 654 g 555 t 4 others
REFERENCE: 1 (bases 1 to 2504)
AUTHOR (AU): Frantz,J.D.; Giorgetti-Peraldi,S.; Ottinger,E.A.;
Shoelson,S.E.
TITLE (TI): Human GrbIRbeta/Grb10: splice variants of an Insulin
and Growth Factor Receptor-Binding Protein with PH and
SH2 Domains
JOURNAL (SO): Unpublished
REFERENCE: 2 (bases 1 to 2504)
AUTHOR (AU): Frantz,J.D.; Giorgetti-Peraldi,S.; Ottinger,E.A.;
Shoelson,S.E.
TITLE (TI): Direct Submission
JOURNAL (SO): Submitted (04-SEP-1996) Research Division, Joslin
Diabetes Center, One Joslin Place, Boston, MA 02215,
USA

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2504	/organism="Homo sapiens" /db-xref="taxon:9606" /tissue-type="cerebellum and skeletal muscle"
gene	1..2504	/gene="GRBIRbeta/GRB10"
CDS	288..1898	/gene="GRBIRbeta/GRB10" /note="signal transduction protein containing PH and SH2 domains and a potential SH3 domain interaction site; insulin receptor binding protein, binds the insulins, PDGF, and EGF receptors; splice variant of hGrbIR; member of the Grb7/Grb10/Grb14 family" /codon-start=1 /product="hGrbIRbeta/hGrb10" /protein-id="AAB08431.1" /db-xref="GI:1546835" /translation="MNASLESLSYACSMQSDTVP LLQNGQHARSQPRASGPPRSIQPQ VSPRQRVQRSQPVHILAVRRLQEEDQQFRTSSLP AIPNPFPELCGPGSPVLTGSLP PSQAAAKQDVKFSEDTGTSKVVEILADMTARDLC QLLVYKSHCVDDNSWTLVEHHPHL GLERCLEDHELVVQVESTMASESKFLFRKNYAKY EFFKNPMNFFPEQMVTWCQSNQS"

QTQLLQNFLNSSSCPEIQGFLHVKELGKKSWKKL
 YVCLRRSGLYCSTKGTSKEPRHLQ
 LLADLEDSNIFSLIAGRKQYNAPT DHGLCIKPNK
 VRNETKELRLLCAEDEQTRTCWMT
 AFRLLKYEMLLYQNYRIPQQRKALLSPFSTPVRS
 VSENSLVAMDFSGQTGRVIENPAE
 AQSAALEEGHAWRKRSTRMNILGSQSPLHPSTLS
 TVIHRTQHWFHGRFSREESHRIIK
 QQGLVDGLFLLRDSQSNPKAFVLT LCHHQKIKNF
 QILPCEDDGQTFFSLDDGNTKFSD
 LIQLVDFYQLNKGVL PCKLKHHCIRVAL"

SEQUENCE (SEQ):

```

1  ggcgcaactt tggctcccag ggaacaaaca tcctccttct aagtggtaga tgtgggtgag
61 ctgaccctgc tggagtctgt cccctgggct accctctgct tccccccatt gtgagtgggc
121 cgtgaagcac agcgttgacc agacctaagc ctgtttgctc ccaggacaag gtggagcaga
181 cacctcgacg tcaacaagac ccggcaggac caggactccc cgcacagtct gaccgacttg
241 cgaatcacca ggaggatgat gtggacctgg aagccctggg gaacgatatg aatgcatccc
301 tggagagcct gtactcggcc tgcagcatgc agtcagacac ggtgccccctc ctgcagaatg
361 gccagcatgc ccgcagccag cctcgggctt caggccctcc tcgggtccatc cagccacagg
421 tgtccccgag gcagagggtg cagcgtccc agcctgtgca catcctcgct gtcaggcgcc
481 ttcaggagga agaccagcag tttagaacct catctctgcc ggccatcccc aatccttttc
541 ctgaactctg tggccctggg agccccctg tgctcacgcc ggggtcttta cctccgagcc
601 aggccgcgc aaagcaggat gttaaagtct ttagtgaaga tgggacaagc aaagtgggtg
661 agatcttagc agacatgaca gccagagacc tgtgccaat gctggtttac aaaagtcact
721 gtgtggatga caacagctgg aactagtgg agcaccaccc gcacctagga ttagagaggt
781 gcttgaaga ccatgagctg gtggtccagg tggagagtac catggccagt gagagtaaata
841 ttctattcag gaagaattac gcaaaatacg agttctttaa aaatcccatg aatttcttcc
901 cagaacagat ggttacttgg tgccagcagt caaatggcag tcaaaccagg cttttgcaga
961 attttctgaa ctccagtagt tgcctgaaa ttcaagggtt tttgcatgtg aaagagctgg
1021 gaaagaaatc atggaaaaag ctgtatgtgt gtttgcggag atctggcctt tattgtctca
1081 ccaagggaac ttcaaaggaa ccagacacc tgcagctgct ggccgacctg gaggacagca
1141 acatcttctc cctgatcgct ggcaggaagc agtacaacgc ccctacagac cacgggctct
1201 gcataaagcc aaacaaagtc aggaatgaaa cttaaagagct gaggttgctc tgtgcagagg
1261 acgagcaaac caggacgtgc tggatgacag cgttcagact cctcaagtat gaaatgctcc
1321 tttaccgaac ttaccgaatc cctcagcaga ggaaggcctt gctgtccccg ttctcgacgc
1381 cagtgcgcag tgtctccgag aactccctcg tggcaatgga ttttctgagg caaacaggac
1441 gcgtgataga gaatccggcg gaggccagga gcgcagccct ggaggagggc cagcctgga
1501 ggaagcgaag cacacggatg aacatcctag gtagccaaag tccccccac ctttctaccc
1561 taagtacagt gattcacagg acacagcact ggtttcacgg gaggttctcc agggaggaat
1621 cccacaggat cattaaacag caagggtctg tggatgggct ttttctcctc cgtgacagcc
1681 agagtaatcc aaaggcattt gtactcacac tgtgtcatca ccagaaaatt aaaaatttcc
1741 agatcttacc ttgcgagga gacgggcaga cgttcttcag cctagatgac gggaaacacca
1801 aattctctga cctgatccag ctggttgact tttaccagct gaacaaagga gtcctgcctt
1861 gcaaactcaa gcaccactgc atccgagtgg ccttatgacc gcagatgtcc tctcggctga
1921 agactggagg aagtgaacac tggagtgaag aagcgggtctg tgcgttggtg aagaacacac
1981 atcgattctg cacctgggga cccagagcga gatgggtttg ttcggtgcca gcctaccaag
2041 attgactagt ttgttggaat taaacgacga tttgctgctg tgaaccagc agggtcgcct
2101 cctctgcgt cggncaaat ggggagggca tgggaagatc agcggaagt tgaaaataaa
2161 ctggaatgat catcttggt taatcttgac aattaaaact gatattgtta cttttttgt
2221 aatgaactct tgccctggaa taatcttgac aattaaaact gatattgtta cttttttgt
2281 attgatcact tttttggact ctttctttgt tttcaatatt gtattcagcc tattgttaga
2341 gggggatgtg gcgtttcaac tcatataata cagaaagagt tttggaatgg gcagatttca
2401 aactgaatat ggggtcccaa atgttccag agggtcctcc acaacctctg ncgactacca
2461 cgggtgtngga ttcagctccc aaatgacaaa cccagncctt ccca
  
```

L2 ANSWER 154 OF 156 GENBANK.RTM. COPYRIGHT 2004 on STN

LOCUS (LOC): HUMGRB14R GenBank (R)
 GenBank ACC. NO. (GBN): L76687
 GenBank VERSION (VER): L76687.1 GI:1369836
 CAS REGISTRY NO. (RN): 391791-70-1
 SEQUENCE LENGTH (SQL): 2376
 MOLECULE TYPE (CI): mRNA; linear
 DIVISION CODE (CI): Primates
 DATE (DATE): 6 May 1998
 DEFINITION (DEF): Homo sapiens ***Grb14*** mRNA, complete cds.
 SOURCE: human.
 ORGANISM (ORGN): Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
 Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini;
 Hominidae; Homo
 NUCLEIC ACID COUNT (NA): 631 a 583 g 510 t
 REFERENCE: 1 (bases 1 to 2376)
 AUTHOR (AU): Daly,R.J.; Sanderson,G.M.; Janes,P.W.; Sutherland,R.L.
 TITLE (TI): Cloning and characterization of ***GRB14*** , a

novel member of the GRB7 gene family
JOURNAL (SO): J. Biol. Chem., 271 (21), 12502-12510 (1996)
OTHER SOURCE (OS): CA 125:27254

FEATURES (FEAT):

Feature Key	Location	Qualifier
source	1..2376	/organism="Homo sapiens" /db-xref="taxon:9606"
mRNA	1..2376	/gene="Grb14"
gene	1..2376	/gene="Grb14"
5'UTR	1..540	/gene="Grb14"
CDS	541..2163	/gene="Grb14" /codon-start=1 /protein-id="AAC15861.1" /db-xref="GI:1369837" /translation="MTTSLQDQGQSAASRAAARDS PLAAQVCGAAQGRGDAHDLAPAPW LHARALLPLPDGTRGCAADRRKKKDLDPPEMP PSPFPELCCSPITSVLSADLFPKA NSRKKQVIKVYSEDETSRALDVPDITARDVCQL LILKNHYIDDHSWTLFEHLPHIGV ERTIEDHELVIEVLSNWGIEEENKLYFRKNYAKY EFFKNPMYFFPEHMFVATETNGE ISPTQILQMFLSSSTYPIHGFLHAKEQGKKSWK KIYFFLRRLSGLYFSTKGSKEPRH LQFFSEFGNSDIYVSLAGKKKHGAPTNYGFCFKP NKAGGPRDLKMLCAEEQSRCTCW TAIRLLKYGMQLYQNYMHPYQGRSGCSSQSISPM RSISENSLVAMDFSGQKSRVIENP TEALSVAVEEGLAWRKKGCLRLGTHGSPTASSQS SATNMAIHRSPWFHHKISRDEAQ RLIIQQLVDGVFLVRDSQSNPKTFVLSMSHGQK IKHFQIIPVEDDGMFHTLDDGHT RFTDLIQLVEFYQLNKGVLPCCLKHYCARIAL" /gene="Grb14"
3'UTR	2164..2376	

SEQUENCE (SEQ):

```

1  cggatgaggg  tcagggtgc  ggggacccct  atcccgctg  cgctctcccg  gcaagcccag
61  cgggagcgcc  cgctcggtg  ggtccccgcc  tccagcgcg  cggggccgcc  cagaccctgg
121  gctcagcctc  gcgccccggt  gccacactga  ggaggcggg  gtcccggcct  cgctctcccg
181  atgggacggc  gcgggagcaa  tgccagtggc  cccgagcgcc  ccggggccag  cgcgggggcg
241  gccagccgct  ctgcgcgccc  ccccgcccc  tccgcgcctt  gcctcgccgc  ccgcgcgccc
301  caccacccgg  ccgctcctcc  cctctcccca  cctctcctct  ccgccccctc  ccctcccccg
361  ccgcctcgca  gatagctcgg  ccgcgcgtct  cagcccgccg  ggccccgagc  gcaggcgggc
421  agggcaccac  acctgcagag  cgctcgggct  gcctaggcgg  cactctgcct  cccgccgcgc
481  aaaccccttc  tccccacgcg  ccgagtctcc  catgacgccc  gagccccccg  gccggcgaca
541  atgaccactt  cctgcaaga  tgggcagagc  gccgcgagca  gggcggtgct  ccgggattcg
601  ccgctggccg  cccaggtgtg  tggcgctgcc  caggggaggg  gcgacgcccc  cgacctggcg
661  ccggccccct  ggctgcagc  gcgagcgctc  ctgccccctc  cggacgggac  ccgcgcgctg
721  gctgcagaca  ggagaaaaaa  gaaagatctt  gatgttccgg  aaatgccatc  tattccaaac
781  ccttttctct  agctatgctg  ttctccaatt  acatctgtgt  tgctcagcaga  cctatttccc
841  aaagcaaat  caaggaaaaa  acaggtgatt  aaagtataca  gtgaagatga  aaccagcagg
901  gcttttagatg  taccagtgta  cataacggct  cgagatgttt  gtcagctggt  gatcctgaag
961  aatcattaca  ttgatgacca  cagctggacc  ctttttgagc  acctgcctca  cataggtgta
1021  gaaagaacaa  tagaagacca  cgaactgggt  attgaaatgc  tatccaactg  ggggatagaa
1081  gaagaaaaca  aactatactt  tagaaaaaat  tatgccaaat  atgagttctt  taaaaacca
1141  atgtattttt  ttccagagca  tatggtatct  ttgcaactg  aaaccaatgg  tgaaatatcc
1201  cccacacaga  ttttgcagat  gtttctgagt  tcaagcacat  atcctgaaat  tcatggtttc
1261  ttacatgcga  agaacagggg  aaagaagtct  tggaaaaaaa  tttacttttt  tctaagaaga
1321  tctggttttt  attttcttac  taaaggaaca  tcaaaggaac  cgcggcattt  gcagtttttc
1381  agcgaatttg  gcaatagtg  tatttatgtg  tctactggcag  gcaaaaaaaa  acatggagca
1441  ccgactaact  atggattctg  cttaagcct  aacaaagcgg  gagggccccg  agacctgaaa
1501  atgctctgtg  cagaagaaga  gcagagtagg  acgtgctggg  tgaccgcgat  tagattgctt
1561  aagtatggca  tgcagctgta  ccagaattat  atgcatccat  atcaaggtag  aagtggctgc
1621  agttcacaga  gcatatcacc  tatgagaagt  atatcagaga  attccctggt  agcaatggac
1681  ttctcaggcc  agaaaagcag  agttatagaa  aatccctact  aagccctttc  agttgcggtt
1741  gaagaaggac  tcgcttgagg  gaaaaaagga  tgtttacgcc  tgggcactca  cggtagcccc
1801  actgcctctt  cacagagctc  tgccacaaac  atggctatcc  accggtccca  gccatggttt
1861  caccacaaaa  tttctagaga  tgaggctcag  cgattgatta  tttagcaagg  acttggtgat
1921  ggagttttct  tggtagcgga  tagtcagagt  aacccccaaa  ctttcgtact  gtcaatgagt
1981  catggacaaa  aaataaagca  ctttcaaatt  ataccagtag  aagatgacgg  tgaaatgttc
2041  cacacactgg  atgatggcca  cacaagattt  acagatctaa  tacagctggt  ggagttctat
2101  caactcaata  agggcgttct  tccttgcaag  ttgaaacatt  attgtgctag  gattgctctc
2161  tagacaagcc  agaagtgact  tattaactaa  ttgaaggaaa  aggactcaag  aaaaataata
2221  aaagaccata  aataagggcg  aaaacattat  catgtgaaaa  gaatgtattt  cacctgcaag

```

2281 ttacaaaaaa atagtttgtg cattgcaa at aagcaaaagac ttggattgac ttacattca
2341 tcatttaaaa ttcattagtt aaaattaaac cttagg

L2 ANSWER 155 OF 156 AGRICOLA Compiled and distributed by the National
Agricultural Library of the Department of Agriculture of the United States
of America. It contains copyrighted materials. All rights reserved.
(2004) on STN
AN 2004:13636 AGRICOLA
DN IND43619263
TI Improved glucose homeostasis and enhanced insulin signalling in
Grb14 -deficient mice.
AU Cooney, G.J.; Lyons, R.J.; Crew, A.J.; Jensen, T.E.; Molero, J.C.;
Mitchell, C.J.; Biden, T.J.; Ormandy, C.J.; James, D.E.; Daly, R.J.
AV DNAL (QH506.E46)
SO EMBO journal, p. 582-593
ISSN: 0261-4189
NTE Includes references
DT Article
FS Non US
LA English

L2 ANSWER 156 OF 156 CONFSCI COPYRIGHT 2004 CSA on STN
AN 1999:27349 CONFSCI
DN 99-039843
TI Novel FGF signaling pathway u ***Grb14*** binds to FGF receptor 1
AU Reilly, J.F.; Mickey, G.; Maher, P.A.
CS Dep. Cell Biol., Scripps Res. Inst., La Jolla, CA 92037, USA
SO American Society for Cell Biology, 9650 Rockville Pike, Bethesda, MD
20814, USA; phone: (301) 530-7153; fax: (301) 530-7139; email:
ascbinfo@ascb.org; URL: www.ascb.org/ascb/, Abstracts available. Price
\$45. Paper No. 1365.
Meeting Info.: 984 0478: 38th American Society for Cell Biology Annual
Meeting (9840478). San Francisco, CA (USA). 12-16 Dec 1998. ASCB, Bio-Rad,
Genentech, Jeol USA, Johnson & Johnson, Leica, Leadership Alliance,
Mark-Rambar Family Foundation.
DT Conference
FS DCCP
LA English
STN INTERNATIONAL LOGOFF AT 15:32:52 ON 09 JUL 2004